

APPLICATIONS FOR ADMISSION AND FOR TRANSFER

The Constitution provides that the Board of Direction shall elect or reject all applicants for *Admission* or for *Transfer*, and, in order to determine justly the eligibility of each candidate, the Board must depend largely upon the Membership for information.

This list is issued to members in every grade for the purpose of securing all such available information, and every member is urged to scan carefully each monthly list of candidates and to furnish the Board with data in regard to any applicant which may aid in determining his eligibility. It is the *Duty* of all *Members* to the *Profession* to assist the Board in this manner.

It is especially urged, in communications concerning applicants, that errors in the record be pointed out and a *Definite Recommendation as to the Proper Grading in Each Case* be given, inasmuch as the grading must be based upon the opinions of those who know the applicant personally, as well as upon the nature and extent of his professional experience. If facts exist derogatory to the personal character or to the professional reputation of an applicant, they should be promptly communicated to the Board. *Communications Relating to Applicants are considered by the Board as Strictly Confidential.*

The Board of Direction will not consider the applications herein contained from residents of North America until the expiration of thirty (30) days, and from non-residents of North America until the expiration of ninety (90) days from November 1, 1928.

MINIMUM REQUIREMENTS FOR ADMISSION

Grade	General Requirement	Age	Length of Active Practice	Responsible charge of work
Member	Qualified to design as well as to direct work	32 years	12 years*	5 years
Associate Member	Qualified to direct work	25 years	8 years*	1 year
Junior	Qualified for sub-professional work	18 years†	4 years*	
Affiliate	Qualified by scientific acquirements or practical experience to co-operate with engineers			
Fellow	Contributor to the permanent funds of the Society			

* Graduation from a school of engineering of recognized reputation is equivalent to 4 years' active practice.

† Membership ceases at age of 32 unless transferred to higher grade.

APPLICATIONS FOR ADMISSION AND FOR TRANSFER

LIST OF APPLICANTS.

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* Distribution lists a school of engineering or technological institution is equivalent to
4 years active practice.
Membership ceases at age of 35 unless transferred to higher grade.

The fact that applicants give the names of certain members as references does not necessarily mean that such members endorse.

The number in the center above each record indicates the serial number of the applicant for the current year, and that at the left the district in which he resides.

The abbreviations in *italics* represent, respectively, *TT*, Total Time; *SP*, Sub-Professional Work; *P*, Professional Work; *RC*, Responsible Charge; *D*, Design. The figure for Total Time is determined by adding one-half the time spent in Sub-Professional Work to the time spent in Professional Work. The figures showing the amount of time spent in Responsible Charge and on Design are the estimate of the Applicant. The allowance of four years for graduation and of one-half of a year for each academic year successfully completed in an engineering college without graduation is included in Total Time and Professional Work.

FOR ADMISSION

1374

(7) **ABBETT, ROBERT WILLIAM**, 67 Monroe St., Pontiac, Mich. (Age 25. Born Jamesport, Mo.) Registered Civ. Engr., State of Michigan. 1927 B. S. in C. E., Univ. of Mo. *TT* 4: *P* 4. Jan. to Sept. 1923 Rodman, Chicago, Burlington & Quincy R. R. Co. *TT* 0.4: *SP* 0.4. May to Nov. 1925 Draftsman and Inspector, West Palm Beach, Fla., on paving, sewer, street widening, etc. *TT* 0.2: *SP* 0.2. Nov. 1925 to April 1926 Draftsman, Benham Eng. Co., Kansas City, Mo., on city maps and plans for sewerage systems, water-works and pavements. *TT* 0.3: *SP* 0.3. April to June 1926 Instrumentman and Locating Engr., Shell Pipeline Corporation, St. Louis, Mo., on surveys. *TT* 0.2: *P* 0.2. June 1926 to date with City of Pontiac, Mich., as Designing Engr. on plans for sewers, pavements, street widening and opening, Field Engr. on pavement construction, Engr.-in-Chg. on design, plans, estimates and specifications, and supervision of construction of additional sewage-treatment works consisting of Imhoff tank, storm flow by-pass and pumping station. *TT* 2.3: *P* 2.3: *RC* 1.8: *D* 1.3. *TT* 7.4: *SP* 0.9: *P* 6.5: *RC* 1.8: *D* 1.3. Refers to J. B. Butler, W. R. Drury, G. D. Kennedy, J. R. Pollock, F. C. Taylor, G. F. Whittemore.

1375

(8) **ACHARYA, BALEBEIL ANANT**, Care, Thos. Cook & Son, Fort Bombay, India. (Temporary address, Ryerson Physical Laboratory, Univ. of Chicago, Chicago, Ill.) (Age 38. Born Mangalore, India.) 1912 B. E. (Civ.) Coll. of Eng., Poona, India. July 1913 to date Engr., Public Works Dept., Bombay, India, until 1915 designing and supervising buildings, masonry and steel bridges, reinforced concrete decking and raft founds for bridges, floating jetty, etc., including masonry bridge (five 50-ft. spans), screw pile bridge with corrugated decking and reinforced concrete decking for Hope bridge, Surat Dist., and floating jetty at Broach; 1915 to June 1927 Prin. in charge on design and construction of about 25 miles of new road (1920), about 20 masonry arched and reinforced concrete bridges, about 20 large buildings (offices and bungalows) in Surat, Kolaba, Thana and East Khandesh Divs., Daagaon bridge with concrete raft foundations over branch of creek, Gandhari bridge over creek (200 ft. wide) with excavations for foundations (20 ft. below water in sand and silt, puddle shoaring) in Town of Mahad, Bhogavati Bridge (seven 30-ft. spans, concrete block arching) at Varangaon (1925), Bagnalla Bridge at Edlabad with reinforced concrete decking (1926), Girna Bridge (thirty 20-ft. spans) at Jalgaon, with reinforced concrete foundations and decking, including training of officers in charge (1926-1927); since June 1927 studying engineering works in Europe, Asia and United States, including study in detail of administration at Ministry of Transport, London, and at Bureau of Public Roads, Washington, D. C. *TT* 15.4: *P* 15.4: *RC* 11.1: *D* 13.8. Refers to A. D. Flinn, E. F. Kelley, A. C. Rose, W. E. Rosengarten, F. E. Schmitt.

1376

(11) ALLEY, ALFRED WRIGHT, 414 North Coronado St., Los Angeles, Cal. (Age 44. Born Buffalo, N. Y.) 1903 to 1905 Instrumentman with W. O. Secor on subdivision work, Los Angeles, Cal. (1 year) and Sonora (Mexico) Central R. R. (1 year). TT 1: SP 1. 1905 to 1912 and 1914 to 1916 in private practice, 7 years designing and building mining buildings, developing and operating mining properties in Mexico, and 2 years surveying and developing mining property in New Mexico. TT 9: P 9: RC 9. 1912 to 1914 Archt., American Film Co., designing and building motion-picture stages, buildings and settings. TT 2: P 2: RC 2. 1916 to 1918 Archt. and Engr., Universal Film Co. (1 year) and Wm. Fox Productions (1 year). 1918 to 1919 and 1921 to 1922 Archt. and Tech. Director with Lois Weber (1 year) and Charles Ray (1 year) Productions, 1919 to 1920 Archt., Engr. and Supervisor of Production, Metro Picture Corporation, 1920 to 1921 Archt. and Engr., Von Stroheim Productions, and 1922 to 1923 Archt. and Studio Mgr., Wharton James Productions, designing buildings, stages, motion-picture settings, etc. TT 7.7: P 7.7: RC 7.7. 1923 to 1925 Architectural Designer, Los Angeles City Bridge Div., in charge of architectural design, Macy St., 9th St. and several large viaducts. TT 1.5: P 1.5: RC 1.5. 1925 Mgr. Luna Consolidated Min. Co., producing Galena ore. TT 0.2: P 0.2: RC 0.2. 1925 to 1926 Bridge Archt., City Engr.'s Office, Los Angeles, architectural design, bridges and viaducts. TT 0.8: P 0.8: RC 0.8. 1926 to 1927 Pres., Los Angeles Municipal Engineers Association. 1927 to 1928 Cons. Engr., at Los Angeles. TT 1: P 1: RC 1. 1928 to date with Cia. Salinera Mexicana, as Engr. in charge of production, shipping and milling of salt, San Quintin, Baja California, Mexico. TT 0.8: P 0.8: RC 0.8. TT 24: SP 1: P 23: RC 23: D 11.5. Refers to D. M. Baker, M. Butler, J. H. Dockweller, W. C. Hogboom, S. B. Morris, D. L. Reaburn, H. H. Winter.

1377

(11) BARNETT, HAROLD ARTHUR, 1666 Corson St., Pasadena, Cal. (Age 30. Born Booneville, Miss.) 1923 B. S., Cal. Inst. Tech. TT 4: P 4. June 1923-Jan. 1924 Draftsman, City Engr.'s Office, Pasadena, Cal. TT 0.7: P 0.7: D 0.1. Feb. 1924 to 1928 Asst. City Engr., San Marino, Cal. TT 4.4: P 4.4: RC 4.4: D 2. TT 9.1: P 9.1: RC 4.4: D 2.1. Refers to T. D. Allin, W. E. Barney, E. A. Burt, G. C. Fitzgerald, F. Thomas.

1378

(9) BRANNAN, THOMAS WARREN, 1417 Northwest Blvd., Columbus, Ohio. (Age 22. Born Columbus, Ohio.) 1928 B. C. E., Ohio State Univ. TT 4: P 4. 1924 to 1927 (vacations and spare time) Foreman, Franklin Asphalt Paving Co., in charge of work on street and at plant. 1928 with State of Ohio as Supervisor, in charge of water and sewage purification at Camp Perry, Ohio, and at present Laboratory Asst., Highway Dept., in Soils Laboratory. TT 0.2: SP 0.2. TT 4.2: SP 0.2: P 4. Refers to E. F. Coddington, F. H. Eno, C. T. Morris, J. C. Prior, J. R. Shank, C. E. Sherman, R. C. Sloane.

1379

(10) BROWN, FORREST JAGGER, Alabama Power Co., Birmingham, Ala. (Age 27. Born East Marion, N. Y.) 1922 C. E., Cornell Univ. TT 4: P 4. July 1922 to April 1923 Jun. Asst. Engr., First Grade, New York State Comm. of Highways, on layout, design and estimate of concrete and steel highway bridges. TT 0.8: P 0.8. May 1923 to Aug. 1928 Draftsman and Engr., Dixie Constr. Co., 1 year as Draftsman, 2½ years Draftsman and Computer on power studies for Alabama Power Co., over 7 months Eng. Asst. on power investigations, and after Feb. 1927 Engr. in charge of squad on preliminary layouts and cost estimates of hydro-electric power projects. TT 4.9: SP 0.5: P 4.4: RC 2.2. TT 9.7: SP 0.5: P 9.2: RC 2.2. Refers to C. James, J. E. Parker, W. E. Sanford, O. G. Thurlow, W. S. Winn, S. H. Woodard.

1380

(2) BROWN, JOSEPH DUNTON, Southington, Marion P. O., Conn. (Age 44. Born Chelsea, Mass.) June to Dec. 1905 Rodman and Paymaster for Guy Lowell, Archt., Boston, Mass., landscape gardening. TT 0.3: SP 0.3. Dec. 1905 to May 1913 Rodman, Inspector and Transitman, New York, New Haven & Hartford R. R. Co. TT 3.7: SP 3.7. May 1913 to June 1918 Asst. Engr., Connecticut Highway Dept. TT 5.1: P 5.1: D 4.1. June 1918 to Dec. 1919 Asst. Engr., J. A. Crisfield Contr. Co., Philadelphia, Pa., hydraulic layout, Stevenson Dam. TT 1.6: P 1.6. Dec. 1919 to May 1920 Res. Engr., Lockwood Greene Co., Boston, Mass., mill construction. TT 0.3: P 0.3: RC 0.3. May 1920 to date Real Estate Engr., Connecticut Light & Power Co., Waterbury, engineering, preliminary hydro, layout of transmission system, etc. TT 8.4: P 8.4: RC 8.4. TT 19.5: SP 4: P 15.5: RC 8.8: D 4.1. Refers to C. Blakeslee, R. A. Cairns, E. Gagel, C. R. Harte, E. E. Minor.

1381

(3) CASE, JOHN GIDEON, Sheldon Court, Ithaca, N. Y. (Age 22. Born El Paso, Tex.) 1927 B. S. in C. E., Cal. Inst. Tech. TT 4: P 4. June to Sept. 1927 on concrete design and detailing, one month with City Bldg. Dept., then with Bennet & Haskell, Archts., Pasadena, Cal. TT 0.1: SP 0.1. Oct. to Dec. 1927 Chairman, Gen. Petroleum Co. of California. TT 0.1: SP 0.1. Jan. to Sept. 1928 Jun. Lighthouse Engr., U. S. Govt., Dept. of Commerce, Bureau of Lighthouses, on design, drafting and estimating on small structures, Inspector on riprap work. At present graduate student in Civ. Eng., Cornell Univ. TT 0.7: SP 0.1: P 0.6. TT 4.9: SP 0.3: P 4.6. Refers to R. R. Martel, W. W. Michael, F. Thomas.

1382

(1) CATLETT, RICHARD HENRY, 285 Madison Ave., New York City. (Age 36. Born Staunton, Va.) 1914 B. A., Univ. of Va. 1917 S. B., Mass. Inst. Tech. TT 4: P 4. Jan. 1918 to Feb. 1919 1st Lieut., 30th Engrs., U. S. Army. TT 1: P 1: RC 1. March 1919 to June 1920 Experimental Engr., International Coal Products Corporation, Newark, N. J. TT 1.2: P 1.2. July 1920 to Jan. 1922 Engr., Lewis Recovery Corporation, Boston, Mass., solvent recovery process. TT 1.5: P 1.5: RC 1. Jan. 1922 to Feb. 1924 Gen. Mgr., Cal Chemical Co., Hagerstown, Md., manufacturing and sale of calcium oxychloride. TT 2: P 2: RC 2. Feb. 1924 to Sept. 1925 Mgr., Calcium Dept., Security Cement & Lime Co., Hagerstown. Sept. 1925 to date Mgr., Calcium and Lime Products Div., North American Cement Corporation, Albany, N. Y. TT 4.6: P 4.6: RC 4.6. TT 14.3: P 14.3: RC 8.6. Refers to J. B. Ferguson, A. T. Goldbeck, T. G. Mooney, S. Walker, G. L. Watson.

1383

(1) CAULKINS, DANIEL PECK, Jr., 437 Halsey St., Brooklyn, N. Y. (Age 31. Born Brooklyn, N. Y.) Student in Civ. Eng., Lehigh Univ. (Oct.-Dec. 1916), in Strength of Materials, Geometry, Calculus, etc., Drexel Inst., Philadelphia, Pa. (Oct. 1917-June 1918, nights) and in reinforced concrete and roof and bridge truss design, Brooklyn Polytechnic Inst. (Oct. 1919-April 1920, nights). Feb. to Oct. 1916 and Feb. to June 1917 Rodman Central R. R. of New Jersey, after Feb. 1917 acting as Inspector on rebuilding piling and braces and sheathing under Shrewsbury River Drawbridge at Highlands, N. J. TT 0.6: SP 0.6. June to Oct. 1917 Computer, Sandy Hook Proving Grounds, U. S. Govt., surveys, calculations, etc. TT 0.2: SP 0.2. Oct. 1917 to June 1918 Draftsman, Emergency Fleet Corporation, Bethlehem Loading Corporation and shop work, Baldwin Locomotive Works. TT 0.7: P 0.7. Oct. 1918 to Feb. 1919 Candidate, Central Officers Training School, Camp Gordon, Ga., graduated as 2d Lieut., Infantry. June 1919 to Dec. 1920 Draftsman, H. D. Best Co., Engrs. and Bldrs., New York City, on reinforced concrete industrial buildings, as Detailer and (about 1 year) on design. TT 0.7: SP 0.7. Feb. to Oct. 1921 valuation work, North Eastern Constr. Co., New York City, estimating quantities for Consolidated Gas Co.'s properties in City. TT 0.3: SP 0.3. Oct. 1921 to Oct. 1927 Secy. and Treas., Nelson & Caulkins, Inc., on building construction, had charge of estimating, field superintendence, purchasing, letting subcontracts on alterations, and residences (\$20 000 to \$50 000); also built Fordham Lutheran Church, Stony Brook School for Boys, Carle Place Grade School, and Babylon and Bayport High Schools. TT 6: P 6: RC 6. Nov. 1927 to date Head, Foundation Dept., N. M. Kellogg Co., Jersey City, in charge of design and plans for foundation work on stills and cracking plants consisting of furnaces, chimneys, towers, control houses. TT 0.9: P 0.9: RC 0.9: D 0.9. TT 9.4: SP 1.8: P 7.6: RC 6.9: D 0.9. Refers to E. Diebitsch, H. W. Ferris, C. W. Hudson, M. Meyers, C. A. Pierce, W. M. Wolfe.

1384

(12) CAVANAGH, WILLIAM CURRAN, Jr., 4514 Sixteenth Ave. N. E., Seattle, Wash. (Age 25. Born Des Moines, Iowa.) 1924 B. S. in C. E., Univ. of S. Dak. 1927 M. S. in Eng., George Washington Univ. TT 4: P 4. Summers 1920-1922 Rodman, Chairman and Instrumentman, Yankton County, S. Dak., on surveys, etc., and (while student) in office on computations. Summer 1923 Asst. City Engr., Yankton, S. Dak., in charge of laying grades for and inspecting 7-mile paving project and staking out 7-mile trunk sewer. June 1924 to Feb. 1925 Jun. Engr., South Dakota State Highway Dept., on Federal Aid projects, earth computation, grade laying and plans, about $\frac{1}{2}$ year on field design. TT 0.6: P 0.6: D 0.2. Feb. to Sept. 1925 and June to Sept. 1926 Engr., H. R. Bradley & Co., designing wooden and steel roof trusses and some detailing on steel for office building construction. TT 0.9: P 0.9: RC 0.5: D 0.5. Aug. to Nov. 1927 Computer, City of Seattle, Wash. TT 0.2: P 0.2. Nov. 1927 to date Asst. Engr., Port of Seattle, on survey for new terminal, design of wood and steel transit sheds, plate girder bridges and reinforced concrete grain elevator, in charge of cold-storage installation. TT 1: P 1: RC 0.6: D 0.7. TT 6.7: P 6.7: RC 1.1: D 1.4. Refers to J. Berg, J. M. Brown, E. F. Carter, J. R. West.

1385

(7) CHRISTENSON, ELMER JOHN, 55 Melbourne Ave. S. E., Minneapolis, Minn. (Age 25. Born East Ellsworth, Wis.) 1927 B. S., Univ. of Minn. TT 4: P. 4. June 1927 to date Jun. Engr., U. S. Engr. Office, St. Paul, Minn., on surveys inspection of pile driving and test borings, assisted in design and plans for lock and dam, drafting, etc., designed sections and some steelwork for lock, in charge of topographic surveys including river soundings. TT 0.9: SP 0.3: P 0.6: RC 0.2: D 0.3. TT 4.9: SP 0.3: P 4.6: RC 0.2: D 0.3. Refers to F. Bass, A. S. Cutler, C. I. Grimm, O. M. Leland, J. I. Parcel.

1386

(7) CLARK, KENNETH MILES, 64 Bedford St., S. E., Minneapolis, Minn. (Age 25. Born Redwood Falls, Minn.) 1927 B. S. in C. E., Univ. of Minn. TT 4: P. 4. June to Aug. 1927 Computer, Minnesota Highway Dept., St. Paul, Minn., on design of pavements, computing earthwork, estimating, etc. TT 0.2: P 0.2: D 0.1. Aug. 1927 to March 1928 Asst. on Engr. Corps, Pennsylvania R. R., Chicago, Ill., instrument work, laying out yard, drafting, estimating, office work, construction. TT 0.7: SP 0.1: P 0.6: RC 0.1. April to Aug. 1928 Jun. Engr. on construction, San. Dist. of Chicago, acting as Instrumentman, Jun. Engr. on North Side Contr. No. 10 intercepting sewer. TT 0.4: P 0.4: RC 0.4. Aug. 1928 to date Jun. Engr., U. S. Engrs., St. Paul, Minn., office work on flowage survey in connection with proposed dam in Mississippi River at Hastings, Minn. TT 0.1: P 0.1. TT 5.4: SP 0.1: P 5.3: RC 0.5: D 0.1. Refers to F. Bass, A. S. Cutler, O. M. Leland, H. G. McNamee, J. I. Parcel.

1387

(11) COOKE, CHARLES PRENTICE, 4534 Melbourne Ave., Los Angeles, Cal. (Age 57. Born Farmington, N. H.) 1895 S. B., Mass. Inst. Tech. TT 4: P 4. 1895 to 1903 in private practice of mining surveying and hydraulic engineering, Cripple Creek (Colo.) Mining Dist.; Commissioned U. S. Deputy Mineral Surveyor. TT 8.5: P 8.5: RC 6.5: D 2. 1904 to 1925 Instrumentman, Surveyor, Asst. Engr. and Field Engr., City Eng. Dept., Los Angeles, Cal., 19 years in full charge of Surveying Dept. TT 21: P 21: RC 17: D 2. 1925 to date member of firm, Will F. Peck Co., Gen. Contrs., completed contracts (over \$1 000 000 annually), including Vine St. (\$326 000), Sacatela (\$852 000), La Brea (\$380 000) and Bogle Heights (\$192 000) Drains, County Storm Drain (new building, nearly completed, \$2 121 000), etc. TT 3.7: P 3.7: RC 3.7. TT 37.2: P 37.2: RC 27.2: D 4. Refers to P. H. Albright, E. Z. Collings, T. A. Jordan, H. Z. Osborne, Jr., R. W. Stewart, H. A. Van Norman.

1388

(9) CORR, GEORGE THEODORE, 2038 East Eighty-First St., Cleveland, Ohio. (Age 29. Born Cambridge, Mass.) 1920 B. S., Mass. Inst. Tech. TT 4: P 4. Sept. 1920 to Sept. 1921 Jun. Highway Engr., and Sept. 1921 to June 1925 Asst. Highway Engr., Illinois Div. of Highways, on reinforced concrete and steel bridges, designing and detailing and (after Sept. 1922) acting as Res. Engr. in charge of laying out and inspecting construction. TT 4.8: P 4.8: RC 3.8: D 1.5. Sept. 1925 to date with Cleveland (Ohio) Union Terminals Co., designing and detailing reinforced concrete and steel structures until Sept. 1926 as Designing Draftsman, then Designer in charge of squad. TT 3.2: P 3.2: RC 2.2: D 2.7. TT 12: P 12: RC 6: D 4.2. Refers to C. B. Breed, G. F. Burch, E. D. Dryfoose, F. Feher, F. L. Gorman, H. Kercher, C. P. Marsh, K. B. Skardon, C. M. Spofford.

1389

(13) DEAN, ANTHONY PORTER, Wishon, Cal. (Age 31. Born Myricks, Mass.) 1920 graduated from Lowell Inst. June to Sept. 1915 Chairman and Rodman with R. L. Hayward, Taunton, Mass., on surveys, etc. June 1916 to Aug. 1917 (school vacation) Rodman and Instrumentman with various surveyors in Massachusetts. Sept. 1917 to Sept. 1919 (except June to Dec. 1918 Private to 2d Lieut., Coast Artillery, U. S. Army) Rodman, Draftsman, Inspector, Instrumentman, etc., New York, New Haven & Hartford R. R. TT 0.8: SP 0.8. March to June 1920 Instrumentman and Draftsman with Rowland Barnes, Waltham, Mass., on surveys, subdivision and landscape engineering. TT 0.3: SP 0.2. June 1920 to Jan. 1921 Instrumentman with Stone & Webster, Inc., Boston, Mass., on steam-power plant and factory construction. TT 0.2: SP 0.2. April 1921 to date with San Joaquin Light & Power Corporation, Fresno, Cal., until Oct. 1921 as Instrumentman and Topographer, then Chf. Hydrographer on steam-flow gauging, construction and maintenance of stations, and since Oct. 1923 Chf. of Party on hydro-electric development, surveys and construction, power house, penstock, tunnel, roads, transmission lines and dams. TT 7: SP 0.5: P 6.5: RC 2.5. TT 8.2: SP 1.7: P 6.5: RC 2.5. Refers to E. K. Barnum, H. K. Fox, W. Kessler, W. B. McMillan, H. Schorer, H. C. Whitmore, L. O. Wolcott.

1390

(11) DE AROZENA, JOE, Arizona Highway Dept., Phoenix, Ariz. (Age 37. Born Rock-springs, Tex.) 1916 B. Sc., and 1919 M. Sc., School of Mines and Eng., Univ. of Ariz. TT 4: P 4. Sept. 1914 to May 1916 Assayer and Rock Analyst, Arizona State Bureau of Mines, designs of flow sheets for ore-dressing plants, etc. TT 0.9: SP 0.9: D 0.7. May 1916 to March 1917 Supt., Penn-Arizona Development Co., mine prospecting and development. TT 0.8: P 0.8: RC 0.8. 1917 Mining and Safety Engr., Cananea Consolidated Copper Co., in charge of stope and safety work for Oversight Mine. TT 0.3: P 0.3: RC 0.3. June to Aug. 1917 Chf. Engr., Lake Valley Mines Co., development and operation. TT 0.1: P 0.1. Aug. 1917 to May 1919 1st Lieut., Infantry and Engrs., U. S. Army, with Combatant Div. Engrs. TT 1.8: P 1.8. June to Sept. 1919 Supt., Reintger-Freeman Mining Co., mine development and surface plant construction. TT 0.3: P 0.3: RC 0.3. Sept. to Nov. 1920 Chf. Engr., New York, Honduras & Rosario Mining Co., general engineering. TT 0.2: P 0.2: RC 0.2. Feb. 1921 to June 1922 Constr. Engr., Republic of Honduras, construction and design and advisory work for Lopez Guitierrez, Pres. of Honduras. TT 1.1: P 1.1: D 0.5. Nov. 1922 to April 1926 Supt. of Constr., Sacaton Diversion Dam and Bridge for U. S. Indian Service, Dept. of Interior, on construction of \$700 000 concrete dam and bridge across Gila River, Ariz. TT 3.5: P 3.5: RC 3.5: D 0.4. June 1926 to date Res. Engr., Arizona Highway Dept., on construction of roads and bridges and inspection and supervision of contract work; at present in charge of inspection of concrete bridge work on three large contracts. TT 2.3: P 2.3: RC 2.3: TT 15.3: SP 0.9: P 14.4: RC 7.1: D 1.6. Refers to R. A. Hoffman, W. W. Lane, W. C. Lefebvre, J. S. Mills, C. R. Olberg, C. U. Smith, G. E. P. Smith.

1391

(2) DENNISTON, JESSE HEMPSTEAD, Rochester, Vt. (Age 42. Born Bethlehem, N. Y.) 1909 C. E., Cornell Univ. TT 4: P 4. Sept. 1909 to Dec. 1918 with Board of Water Supply, New York City, on Catskill Aqueduct, until Jan. 1910 as Inspector of shaft and tunnel work, then Asst. Engr. on inspection, line and grade, in charge of field parties, surveys, maps, plans, estimates, reports, etc., and of construction. TT 9.2: P 9.2. April to Oct. 1919 Engr., Maintenance Dept., Newburgh Shipyards, Inc., upkeep of shipways and equipment, design of new buildings, equipment, alterations, etc. TT 0.6: P 0.6. Oct. 1919 to June 1923 Asst. Engr., New York State Highway Dept., 3 years on Storm King Road, being Asst. to Engr.-in-Chg., 4 months in Div. office. TT 3.3: P 3.3. June 1923 to Jan. 1925 Engr. (field and office), Tench Constr. Co., Bear Mountain Bridge, design of concrete forms, timber falsework, anchor girders for footwalk cables and timber and steel construction features, Chf. of Party. TT 1.5: P 1.5: RC 0.7. April to July 1925 Engr. with Chas. Jaeger, Contr., Cornwall-on-Hudson, N. Y., in charge of construction of swimming pool (\$30 000). TT 0.3: P 0.3: RC 0.3. Aug. to Oct. 1925 Engr. with H. E. Breed, New York City, on surveys and in charge of real estate development, streets, water mains, etc. TT 0.3: P 0.3. Oct. 1925 to July 1926 Chf. of Party, Florida Realty Associates, subdivision, streets, pavements, water supply, etc. TT 0.7: P 0.7. July 1926 to Dec. 1927 Draftsman, Phoenix Utility Co., Miami, Fla., in charge of preparing county maps of N. E. Florida, on right-of-way plans, etc. TT 1.4: P 1.4. Dec. 1927 to July 1928 Asst. Res. Engr., with Robinson & Steinman, New York City, in charge of field work on Mount Hope Bridge, triangulation, location of piers, etc. TT 0.6: P 0.6: RC 0.6. Sept. 1928 to date Asst. Engr., Vermont State Highway Comm. TT 0.1: P 0.1. TT 22: P 22: RC 1.6. Refers to J. M. Belknap, H. E. Breed, W. E. Joyce, H. D. Robinson, J. F. Sanborn, D. B. Steinman.

1392

(4) DUNN, GEORGE PERRY, 339 Tyler St., Trenton, N. J. (Age 26. Born Trenton, N. J.) 1924 B. S. in C. E., Drexel Inst., Philadelphia, Pa. TT 4: P 4. June 1924 to Feb. 1925 Inspector, Pennsylvania Dept. of Highways, on concrete bridges and culverts and highway paving, drafting and computing. TT 0.3: SP 0.3. Feb. to Oct. 1925 Asst. Civ. Engr., New Jersey State Highway Dept., surveys and drafting on connecting road studies for Delaware River Bridge approaches. TT 0.4: SP 0.4. Oct. 1925 to May 1926 Draftsman, Tampa Beach, Inc., computing and drafting for real-estate development, design of water system, bridge, dock, etc. TT 0.4: SP 0.2: P 0.2: D 0.2. May to Aug. 1926 Asst. Engr., McCormack Eng. Co., field and office work on preliminary estimates for hydraulic fill, drainage and road projects. TT 0.2: SP 0.1: P 0.1: D 0.1. Aug. 1926 to March 1928 Office Engr., Hillsborough County Eng. Dept., responsible for surveys and inspection, including reports, estimates, commissary, etc., and secured right of way on 189 miles Limerock road construction. TT 1.3: SP 0.1: P 1.2: RC 1.2. March 1928 to date Senior Civ. Engr., New Jersey State Highway Dept., survey and drafting on plans for concrete highway construction. TT 0.3: SP 0.3. TT 6.9: SP 1.4: P 5.5: RC 1.2: D 0.3. Refers to W. E. Bailey, F. C. Claus, W. Easby, Jr., H. W. Giffin, M. D. Kolyn, P. F. Russell.

1393

(13) FARRIS, CULBERT WILLIAM, 1312 Bernel Ave., Burlingame, Cal. (Age 35. Born Minneapolis, Minn.) 1916 B. A. in Math., and 1917 completed requirements for B. A. in Civ. Eng., Stanford Univ. TT 4: P 4. Sept. 1917 to April 1919 with U. S. Army, 2nd and 1st Lieut. Co. F., 5th U. S. Engrs. until Dec. 1917 at 2nd Officers Training Camp then at Corpus Christie, Tex., and after July 1918 overseas. TT 0.8: SP 0.8. May to July 1919 Designing Draftsman, City of Brownsville, Tex., water supply, sewage-disposal system, steam power-plant, abattoir, alterations to public market. TT 0.3: P 0.3: D 0.3. Aug. 1919 to July 1921 Designing Draftsman, and Hydr. Engr., Los Angeles County Flood Control Dist., design of bridges and dams. TT 1.9: P 1.9: D 1.9. Aug. 1921 to date Office Engr., Constant Angle Arch Dam Co., San Francisco, being Designing Draftsman on dams and hydro-electric power projects and Office Engr. in charge of Bullards Bar and Bucks Creek Projects. TT 7.2: P 7.2: RC 5: D 2. TT 14.2: SP 0.8: P 13.4: RC 5: D 4.2. Refers to F. E. Bonner, F. H. Fowler, J. D. Galloway, G. B. Heywood, L. R. Jorgensen, E. W. Kramer, P. Schuyler, O. Speir, Jr., C. B. Wing.

1394

(11) FAULKNER, JAMES DAVID, 2516 Corralitas Drive, Los Angeles, Cal. (Age 30. Born Faulkton, S. Dak.) 1920 B. S. in C. E., S. Dak. State Coll. TT 4: P 4. June 1920 to Dec. 1922 with Dakota Eng. Co., Mitchell, S. Dak., as Chf. of Party on surveys, Asst. Engr. on design of land drainage, sewers and water-works (under supervision) and Res. Engr. on sewer and water-works construction. TT 2.3: SP 0.1: P 2.2: RC 1.2. Feb. 1923-March 1925 with Los Angeles & Salt Lake R. R. Co., Los Angeles, Cal., 1 year as Draftsman on maintenance of way, bridge and culvert plans, etc., then Instrumentman in charge of field party on maintenance of way. TT 2.2: P 2.2: RC 0.6. April 1925 to date Jun. Civ. Engr., Eng. Dept., Los Angeles, on preliminary plans for sewer districts, special investigations and studies for sewage disposal, specifications, preparing contracts with bordering communities for sewage disposal, checking sewer plans, etc. TT 3.5: P 3.5: D 2. TT 12: SP 0.1: P 11.9: RC 2.1: D 2. Refers to B. O. Badgley, W. F. Foster, W. T. Haight, W. C. Hogo-boom, W. T. Knowlton, G. A. Parkes, F. W. Parsons, W. D. Smith.

1395

(1) FISCHER, VICTOR WILLIAM, 2995 Botanical Garden Sq., New York City. (Age 22. Born New York City.) 1928 B. S. in Civ. Eng., Univ. of Notre Dame. TT 4: P 4. Refers to E. A. Byrne, W. S. Moore.

1396

(11) FOERSTER, WILLIAM KAPPE, 11555 Lewis St., Lynwood, Cal. (Age 29. Born Cincinnati, Ohio.) Student in Civ. Eng., Univ. of Colorado (Sept. to Dec. 1918 and Jan. to June 1922) and Arts and Civ. Eng., Ohio State Univ. (Sept. 1919 to June 1921). TT 1.5: P 1.5. June 1921 to Jan. 1922 Rodman with H. R. Low, Brockton, Mass., mine survey. TT 0.3: SP 0.3. June 1922 to May 1924 Foreman for Wm. J. Kappes, Durham, N. C., on paying, laying pipe lines and asphalt, brick gutter and concrete. TT 1.9: P 1.9: RC 1.9. May to Sept. 1924 Supt. for Nello L. Teer, Durham, on excavation, office work and some design. TT 0.5: P 0.5: RC 0.3: D 0.3. Sept. 1924 to Sept. 1926 Foreman for J. C. Mickey, on laying pipe for City of Durham. TT 2: P 2: RC 2. Oct. 1926 to date with Los Angeles County Sanitation Dist., as Inspector on Metropolitan sewers and manufacture of concrete pipe. TT 2: P 2: RC 2. TT 8.2: SP 0.3: P 7.9: RC 6.2: D 0.3. Refers to H. R. Bolton, F. D. Bowlus, W. H. Collins, A. M. Rawn, C. F. Smith.

1397

(8) FULKERSON, ARTHUR THOMAS, 234 Wilder St., Aurora, Ill. (Age 41. Born Clay City, Ind.) 1913 B. S. in C. E., and 1923 C. E., Purdue Univ. TT 4: P 4. June to Aug. 1913 Asst. Retort Foreman, American Creosoting Co., Hugo, Okla., treating ties, bridge timbers, piling and poles for railroad construction. TT 0.1: SP 0.1. Aug. 1913 to May 1914 Instrumentman, U. S. Engr. Office, Dallas, Tex., on surveys, maps, etc. TT 0.4: SP 0.4. June 1914 to May 1917 Jun. Engr., and July to Nov. 1919 Jun. Valuation Engr., Interstate Commerce Comm., Chicago, Ill., on railway valuation inventory, Asst. Field Computer and Field Computer. TT 1.7: SP 1.7. May 1917 to July 1919 2d Lt., 1st Lt., and Capt., 113th U. S. Engrs., U. S. Army and A. E. F. TT 2: SP 0.1: P 1.9: RC 1.9. Nov. 1919 to March 1920 Jun. Highway Engr., Illinois Div. of Highways, Carbondale, Ill., on surveys, plans, designs and computations. TT 0.2: SP 0.2. March 1920 to Jan. 1923 Res. Engr., South Dakota State Highway Comm., Pierre, S. Dak., on construction of earth and gravel roads, steel and concrete bridges, drainage structures, stream diversion, foundations, locations, estimates, reports, costs, concreting in sub zero weather. TT 2.7: SP 0.2: P 2.5: RC 2.5. March to June 1923 Contr.'s Engr. with Henry W. Horst, Gen. Contr., Rock Island, Ill., on construction of concrete pavements and drainage structures, costs, and progress study. TT 0.2: SP 0.2. Aug. 1923 to May 1924 Res. Engr., Morgan Eng. Co., Memphis, Tenn., con-

struction of concrete pavements and sewers, Newport, Ark. TT 0.7: P 0.7: RC 0.7. May 1924 to July 1925 Research Engr., Little Rock-Hot Springs Highway Dist., Benton, Ark., inspection and tests of materials, design of concrete mix for pre-determined strength, foundations, 40 miles concrete pavement and bridges. TT 1.2: P 1.2: RC 1.2. Sept. 1925 to date Engr. of Design, Eng. Service Co., Aurora, Ill., on sewers, sewage-treatment plants, water systems, levying special assessments for public and municipal improvements, plans, designs, specification. TT 3: P 3: RC 3: D 2. TT 16.1: SP 2.8: P 13.3: RC 9.3: D 2. Refers to W. A. Christian, A. S. Fry, J. M. Kemmerer, A. M. Lund, J. C. Oakes, G. A. Quinlan, C. O. Thomas, H. A. Wiersema.

1398

(1) HAYES, MORGAN DODGE, 43 Union St., Montclair, N. J. (Age 56. Born Washington, Pa.) 1892 B. S., Washington and Jefferson Coll. March 1893 to Sept. 1895 with Westinghouse Elec. & Mfg. Co., Pittsburgh, Pa., as Draftsman and Asst. to Mech. Engr. on layout plans for East Pittsburgh shops. TT 1.2: SP 1.2. Sept. 1895 to Nov. 1897 Draftsman, Dept. of Public Works, Pittsburgh, under Engineer of Parks, on bridges, roads, etc. TT 2.1: P 2.1: D 2.1. Nov. 1897 to Sept. 1899 Asst. to Res. Engr., Shreveport & Red River Valley R. R., Shreveport, on plans of yards, field work, etc. TT 1.8: P 1.8: D 1.8. Sept. 1899 to June 1906 (except June 1901 to July 1902 Constr. Engr. on new plant in Manchester, England, for British Westinghouse Elec. Co.) with American Water Works & Guarantee Co., Pittsburgh, on surveys and construction for water-works. TT 6.6: P 6.6: RC 4.6: D 2. June 1906 to June 1907 Constr. Engr. on copper smelting plant for U. S. Metals Refining Co., Chrome, N. J. TT 1: P 1: RC 1. June 1907 to Dec. 1910 Eng. Salesman, New York Office, Traylor Eng. & Mfg. Co., on crushing and mining machinery, field construction work in Montana and Nevada. TT 3.5: P 3.5: RC 1: D 1. Dec. 1910 to Dec. 1918 Eng. Salesman and (four years) Sales Mgr., New York Office, Midvale Steel Co., Philadelphia, Pa. TT 8: P 8: RC 4. Dec. 1918 to Dec. 1919 Mgr., Steel Dept., A. G. De Sherbinin Export Co., New York City, four months in England making steel research for markets for construction and railroad materials. TT 1: P 1: RC 1. 1920-1922 on engineering construction and report work and part of time travelling. TT 2: P 2: D 0.6. March 1923 to Dec. 1927 with American Water-Works and Elec. Co., and Feb. 1928 to date with Community Water Service Co., New York City, special engineering report work and design for additions and improvements to water-works plants. TT 5.3: P 5.3: RC 2.6. TT 32.6: SP 1.3: P 31.3: RC 14.2: D 7.5. Refers to G. W. Biggs, Jr., J. N. Chester, R. J. Newsom, A. V. Ruggles, H. B. Rust.

1399

(15) HIGHFILL, JAMES BODENHEIMER, Pawhuska, Okla. (Age 26. Born Trinidad, Colo.) Student in physics and mathematics, School of Eng., Milwaukee, Wis. (Sept. 1918 to June 1919) and in Civ. Eng., Univ. of Wisconsin (Sept. 1921 to June 1922) and Univ. of Kansas (Sept. 1923 to June 1924). TT 1: P 1. April-Aug. 1918 Head Chairman on survey of F. A. P. No. 42 Pawhuska to Pershing, Okla. TT 0.3: SP 0.1: P 0.2. Sept. 1919 to Sept. 1920 Draftsman, Midland Tool & Supply Co., Pawhuska, on oil-well tool designing and detailing. TT 0.7: SP 0.2: P 0.5. Aug. 1924 to March 1925 Chf. of Party, Republic of Mexico, Mineral Land Surveyor for Dist. of Rayon, Chihuahua. TT 0.7: P 0.7: RC 0.7. April 1925 to date with Osage County, Okla., 1 year as Draftsman, estimating, detailing and general layout construction of earthwork, bridges and alignment plans of and on county, state and U. S. highways, and since Jan. 1926 Chf. of Party and Constr. Engr. on location, surveying, estimating, classification and construction of roads, bridges and drainage structures on county highways. TT 3.6: SP 0.3: P 3.3: RC 2.8: D 0.5. TT 6.3: SP 0.6: P 5.7: RC 3.5: D 0.5. Refers to M. E. Binkley, H. W. Crawford, W. E. Davis, G. C. Dobson, C. Schultz.

1400

(5) HOOK, ADDISON EASTWICK, 1519 Park Ave., Baltimore, Md. (Age 24. Born Baltimore, Md.) 1925 B. S., Univ. of Md. TT 4: P 4. July 1926 to Dec. 1927 Quantityman, Coast Dept. (Conowingo Dam), Arundel Corporation, Baltimore, Md., furnished quantities for estimates, made reports and charts, acted as Instrumentman. TT 0.7: SP 0.7. Dec. 1927 to date with J. E. Greiner Co., Baltimore, as Pile Inspector on municipal harbor development, also Concrete Inspector. TT 0.4: SP 0.4. TT 5.1: SP 1.1: P 4. Refers to H. H. Allen, J. V. Hogan, A. N. Johnson.

1401

(4) IRWIN, WILLIAM ELLIS ROW, Goshen Apartments, West Chester, Pa. (Age 32. Born Phillipsburg, Pa.) 1922 B. S. in Civ. Eng., Univ. of Mich. TT 4: P 4. Sept. 1922 to Feb. 1923 Inspector, Pennsylvania Dept. of Highways, on concrete road construction and asphalt-mixing plant. TT 0.2: SP 0.2. Dec. 1923 to Nov. 1926 with Gibbs & Hill on Virginian Ry. electrification as follows: Dec. 1923 to Jan. 1925 Instrumentman at Narrows, Va., on transmission line survey, estimates, sketches, inspection of construction of Narrows

Power Plant, etc., part of time in charge of party; Jan. 1925 to Jan. 1926 Chf. of Party at Mullens, W. Va., in charge of construction of inspection and repair shops, engineering and general supervision of construction and equipment; Jan. to April 1928 Office Engr. at Roanoke, Va., on field drawings, estimates, reports, engineering details, in charge of field engineering office; after April 1928 Asst. Engr. at Roanoke, being Chf. Asst. to Engr. in Chg. of electrification, assisting in administration, engineering details, reports, inspections, etc. TT 2.6: SP 0.3: P 2.3: RC 1.9. Feb. to Dec. 1923 and Nov. 1926 to date with Day & Zimmermann, first as Instrumentman in charge of party, on layout and checking of field work, estimates, inspection, etc., on extension of Holtwood (Pa.) power plant, from Nov. 1926 to Jan. 1928 Asst. Engr. at West Chester, Pa., in charge of drafting room, Conowingo Transmission Line, profiles, drawings, estimates, calculations, etc., and since Jan. 1928 Field Engr. at Gratersford, Pa., in charge of field and office engineering on construction of New Eastern State Penitentiary, field layout, inspection, drawings, requisitions, estimates, reports, etc., being Chf. Asst. to Supt. in Chg. TT 2.6: SP 0.2: P 2.4: RC 0.8. TT 9.4: SP 0.7: P 3.7: RC 3.9. Refers to J. B. Corridon, F. S. Friel, H. W. Hudson, J. T. Kiernan, J. B. Kingsolver, C. F. Mebus.

1402

(11) JOHANNSEN, JOHN FREDERICK, City Hall, Glendale, Cal. (Age 42. Born Hawley, Pa.) 1906 to 1909 Tracer, Draftsman and Designer of special machinery, gas engines, etc., for Henry E. Brett, Cons. Engr., Los Angeles, Cal. TT 2.3: SP 0.8: P 1.5: D 1. June 1920 to Jan. 1921 Draftsman and Designer, designing and supervising construction of similar machinery, concrete structures, etc., 1909 to 1910 Draftsman and Designer, Axelson Machine Works, Los Angeles, Cal., detailing and designing gas and oil engine, oil-well tools and special machinery. TT 1: P 1: D 1. Feb. 1910 to Oct. 1915 and May 1917 to Nov. 1918 with Ordnance Dept., U. S. Army, first as Draftsman, Designer and Jun. Engr. at Rock Island Arsenal, Ill., on layout and design of ordnance material, tools and equipment for small arms manufacture, layout of ordnance depots and buildings, sanitation works, and (after May 1917) Jun. Engr. at Muskegan and Detroit, Mich., on inspection of, and Consultant on methods and equipment for ordnance material. TT 7: P 7: RC 3: D 3. Oct. 1915 to May 1917 Asst. Chf. Draftsman and Equipment Engr., Remington Arms Co., Eddystone, Pa., on layout of plant and equipment for manufacture of rifles, design of tools and fixtures, direct charge of drafting room. TT 1.5: P 1.5: RC 1.5. Jan. 1919 to June 1920 Asst. Chf. Draftsman, Tool Design Dept., Dodge Bros. Co., Detroit, in charge of section of Drafting Dept., design of special tools and equipment. TT 1.5: P 1.5: RC 1.5. June 1920 to Jan. 1921 Draftsman and Designer, with Henry E. Brett, Cons. Engr., designing and supervising construction of special machinery, concrete structures, etc. TT 0.5: P 0.5: D 0.5. Jan. 1921 to date Chf. Draftsman, San. Engr. and City Engr., Glendale, Cal., on design and supervision of all public works; paving, sidewalks, culverts, sanitary and storm sewers, bridges, ornamental street lighting installation, etc., complete charge of design and construction of sanitary sewer system. TT 7.5: P 7.5: RC 7.5. TT 21.3: SP 0.8: P 20.5: RC 13.5: D 5.5. Refers to R. L. Anderson, E. C. Eaton, R. F. Goudey, W. T. Knowlton, F. C. McMillan, T. R. Mini, R. B. Ray, C. A. Smith.

1403

(1) JOSEPH, LOUIS SIMMONDS, 31-31 Academy St., Astoria, N. Y. (Age 27. Born Manchester, England.) 1928 B. S., Coll. of City of N. Y. TT 4: P 4. Summer 1918 Tide Recorder, U. S. Army Engrs., New York City. April 1924 to March 1925 Eng. Draftsman for various clients, on topographical, mechanical and architectural work. TT 1: P 1. March 1925 to date with Board of Transportation, New York City, on subway work, until Nov. 1925 as Eng. Asst., laying base lines, on surface topography, etc., also drafting and planning relocation of sub-surface structures, and since Nov. 1925 Jun. Engr., drawing plans for relocation of subsurface structures, Squad Boss and at present Asst. in Chg. of Sub-surface Sec., Second Div. TT 3.2: SP 0.3: P 2.9: RC 2.9: D 2.9. TT 8.2: SP 0.3: P 7.9: RC 2.9: D 2.9. Refers to S. T. Goldsmith, W. Goldsmith, B. A. Hodgdon, J. H. Myers, C. D. Searle.

1404

(5) KNOERLE, JOSEPH KARL, 4901 Huntington Ave., Newport News, Va. (Age 32. Born West Plains, Mo.) 1919 B. S. in M. E., and 1922 M. S. in Highway Eng., Univ. of Mich. TT 4: P 4. Feb. 1919 to March 1920 Efficiency and Test Engr., Moline (Ill.) R. I. Mfg. Co., tests and control work on boilers, turbines and equipment in 50 000-kw. steam-electric power plant. TT 0.6: SP 0.4: P 0.2: RC 0.2. April 1920 to June 1921 Detailer, American Bridge Co., Gary, Ind., on shop erection and fabrication of structural steel (3 months); design and detail of bridge machinery, detail office, mill and bridge steel. TT 0.5: SP 0.5. July 1922 to Jan. 1926 with Missouri State Highway Comm., as Concrete Inspector on one project, and Res. Engr. on thirteen projects, (55 miles of highways and 12 bridges), last

year in charge of seven projects. *TT 3.2: SP 0.2: P 3: RC 3: D 1.* Jan. to April 1926 Chf. of Party with Carr & McFadden, West Palm Beach, Fla., on boundary survey, hydraulic fill work, subdivisions, railroad terminal development. *TT 0.2: SP 0.1: P 0.1: RC 0.1.* May 1926 to Jan. 1927 Chf. of Party, Turner Constr. Co., on line and grade work for West Palm Beach Water-Works; part of time in charge of laying large pipe. *TT 0.6: SP 0.1: P 0.5: RC 0.5.* Jan. 1927 to Jan. 1928 Detailer, American Bridge Co. at Gary, Ind., on shop details for vaults, bridges and office buildings, and (after Aug. 1927) at Toledo, Ohio, on girder details for Fisher Bldg., and girders and columns on Detroit Edison Power House. *TT 0.5: SP 0.5.* Jan. 1928 to date Asst. Engr., J. E. Greiner & Co., Baltimore, Md., on James River Bridge Project, inspection on bridges and 10 miles of concrete highways. *TT 0.4: SP 0.4. TT 10: SP 2.2: P 7.8: RC 3.8: D 1.2.* Refers to A. H. Blanchard, C. W. Brown, G. W. Carr, F. W. Dencer, H. B. Pope, W. M. Spann, W. Willoughby.

1405

(1) **LAWSON, FRANK WESLEY**, 309 Castlereagh Street, Sydney, N. S. W. (Age 31. Born Blackheath, N. S. W.) 1922 B. of E., Peter Nicol Russell Eng. School, Univ. of Sydney. *TT 4: P 4.* 1922 to 1926 Eng. Draftsman, Metropolitan Water, Sewerage and Drainage Board, drawing, designing and estimating. *TT 4.6: P 4.6: D 4.6.* 1926 to date Asst. Designing Engr., Main Roads Board of New South Wales, in charge (under Bridge and Designing Engr.) of bridge design and country supervision. *TT 1.5: P 1.5: RC 1.5. TT 10.1: P 10.1: RC 1.5: D 4.6.* Refers to W. A. Miller, H. M. Sherrard, T. H. Upton. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

1406

(3) **LAWSON, VICTOR FREMONT**, 566 Clarendon St., Syracuse, N. Y. (Age 32. Born Kalamazoo, Mich.) 1918 B. S. in C. E., Tri State Coll. of Eng., Angola, Ind. Summers 1914-1917 Detailer, and July 1919 to Jan. 1923 Estimator and Designer of structural steel, Pan American Bridge Co., Newcastle, Ind. *TT 3.5: P 3.5.* May 1918 to July 1919 Master Engr. (J. G.) U. S. Army, A. E. F. Jan. 1923 to Jan. 1924 Designer and Salesman, Truscon Steel Co., Indianapolis, Ind. *TT 1: P 1: RC 1: D 1.* Jan. 1924 to date Dist. Engr. for New York State and Northern Pennsylvania, Macomber Steel Co. of Canton, Ohio, sale, design, etc. *TT 3.8: P 3.8: RC 3.8: D 3.8. TT 8.3: P 8.3: RC 4.8: D 4.8.* Refers to H. M. Bringhurst, W. H. Converse, Jr., C. E. Crook, L. A. Estes, L. C. Gustin, S. Macomber, G. W. Thompson.

1407

(1) **LENART, ANDREW FRANCIS**, 4102 Seventy-Eighth St., Jackson Heights, N. Y. (Age 22. Born New York City.) 1927 C. E., Cornell Univ. *TT 4: P 4.* July 1927 to Aug. 1928 Detailer, American Bridge Co., Ambridge (Pa.) and Trenton (N. J.) Plants, making shop drawings for structural steel on mill buildings, bridges, etc. *TT 0.5: SP 0.5.* Aug. 1928 to date Draftsman with Beers-Tapman, Inc., New York City, designing, detailing and estimating on structural steel for mill buildings. *TT 0.1: SP 0.1. TT 4.6: SP 0.6: P 4.* Refers to F. A. Barnes, R. R. Graham, J. E. Perry, S. F. Tapman.

1408

(1) **LENDALL, HARRY NELSON**, 41 College Ave., New Brunswick, N. J. (Age 50. Born Essex, Mass.) 1906 B. S. in Civ. Eng., and 1926 C. E., Tufts Coll. *TT 4: P 4.* Aug. 1906 to Jan. 1908 Inspector, Rodman and Transitman, Waterbury (Conn.) Sewage-Disposal Plant, in charge of lines and grades and monthly estimates. *TT 0.7: SP 0.7.* Jan. to May 1908 on preliminary surveys for Morris Dam, Thomaston, Conn., in charge of party. *TT 0.2: SP 0.2.* Feb. to Sept. 1909 Transitman and Draftsman, Boston & Maine R. R. *TT 0.4: SP 0.4.* Sept. 1909 to July 1912 Instructor, Dept. of Civ. Eng., Univ. of Pennsylvania. Summer 1910 Res. Engr. in charge of construction of sewerage system and disposal plant at St. John, Kans. *TT 1.6: SP 1.3: P 0.3: RC 0.3.* 1912 to 1914 Instructor in, 1914 to 1918 Asst. Prof. and 1918 to 1924 Associate Prof. of, Civ. Eng., and 1924 to date Prof. of Mun. and San. Eng., Rutgers Univ.; also summers 1913 and 1914 graduate student, Univ. of Wisconsin; July 1923 to March 1924 and March to Aug. 1925 Res. Engr. in charge on construction of water-works and distributing systems, Lawrence Harbor and Cliffwood Beach, N. J., and elevated water tank, Matawan, N. J.; summer 1917 investigation and studies for power development on Contoocook River, N. H.; summer 1919 design of surge tank and studies and investigation of design of dam and retaining wall on Sugar River, Lake Sunapee, N. H.; June 1924 to Feb. 1925 sanitary survey and report, City of Camden, N. J., involving plans for sewage disposal (estimated cost \$3 500 000) and April to Aug. 1928 on same work for City of Long Branch, N. J. and on valuation of sewer system and plant of Long Branch Sewer Co.; summer 1927 Res. Engr. in charge of construction of water-filtration plant, dam and supply line, Hamburg, N. Y. May-June 1928 Cons. Engr. with G. L. Watson, for Mercer County, N. J. in case of Murray Rubber Co. *TT 15: SP 1: P 14: RC 14: D 1. TT 21.9: SP 3.6: P 18.3: RC 14.3: D 1.* Refers to A. Atkinson, J. W. Ferguson, R. J. Fogg, C. Potts, E. H. Rockwell, W. G. Taylor, G. L. Watson.

1409

(1) LEWIS, BEVAN BLAU, Puerto Barrios, Guatemala. (Age 30. Born Indianapolis, Ind.) 1921 B. S. in C. E., Purdue Univ. TT 4: P 4. Summer 1918 Instrumentman, Cleveland, Cincinnati, Chicago & St. Louis Ry. Summer 1920 Instrumentman, Louisville & Nashville R. R. June 1921 to date with United Fruit Co., Puerto Barrios, Guatemala, engaged as follows: June 1921 to Jan. 1923 Instrumentman on farm and drainage layouts; Jan. 1923 to Aug. 1924 Asst. Engr. on location and construction of Company railway, Entre Rios Branch; Aug. 1924 to Sept. 1926 Asst. to Chf. Engr. in charge of all field engineering, including drainage, topography, railway construction and river-protection work; since Sept. 1926 Chf. Engr. in charge of engineering, railways, power and light and building construction. TT 7.2: P 7.2: RC 7.2: D 3. TT 11.2: P 11.2: RC 7.2: D 3. Refers to A. R. Kennedy, P. H. Myers, S. F. Shaw, C. Terzaghi, L. F. Whitbeck.

1410

(2) LINDSTROM, BARTIL WILLIAM, 82 Train St., Boston, Mass. (Age 27. Born Boston, Mass.) 1926 B. Sc., Brown Univ. TT 4: P 4. Nov. 1926 to March 1927 Draftsman, Board of Transportation, New York City, subway steel design. TT 0.5: P 0.5. March to Nov. 1927 and March 1928 to date Engr., Pitometer Co., on water-waste survey. TT 1.3: P 1.3. TT 5.8: P 5.8. Refers to E. D. Case, J. E. Hill.

1411

(1) MacCALLUM, CLARENCE, 17 Battery Place, New York City. (Age 41. Born Brooklyn, N. Y.) 1903 to 1905 with Bell Elec. Motor Co., Garwood, N. J., machine shop, motor winding, etc. TT 0.9: P 0.9. 1905 with Magneta Elec. Clock Co., installation of electric clocks. TT 0.4: P 0.4. Oct. 1905 to Oct. 1909 with New York Edison Co., on drafting and design of sub-stations. TT 2.7: SP 1.2: P 1.5: D 2. Oct. 1909 to May 1913 Chf. Draftsman, Supt. of Constr., Operating Engr. and Asst. to Chf. Engr., Toronto (Canada) Hydro Elec. System. TT 3.6: P 3.6: RC 3.6: D 3.6. May to Dec. 1913 with F. S. Pearson Co., New York City, on power house design. TT 0.5: P 0.5: RC 0.5. Dec. 1913 to Dec. 1914 with P. W. Lothman, Cons. Engr., on power house design, high-tension transmission. TT 1: P 1: D 1. Dec. 1914 to May 1917 Asst. Cons. Engr., United Fruit Co., design and construction of wharves, buildings, power plants, shops, etc. TT 2.5: P 2.5: RC 2.5. May 1917 to Jan. 1918 with U. S. Navy, Navigating Officer, U. S. S. Noma. TT 0.8: SP 0.8. Jan. 1918 to Jan. 1928 with, and Jan. 1928 to date successor to, T. Howard Barnes, Cons. Engr., New York City, on design and construction of wharves, buildings, terminals, water works, sewers, etc. TT 10.8: P 10.8: RC 10.8. TT 23.2: SP 3.3: P 19.9: RC 17.4: D 6.6. Refers to W. W. Armour, J. Bourguignon, R. C. Burton, H. J. Deutschbein, R. W. Hebard, L. M. Levine, G. Pinner, W. W. Schuyler.

1412

(1) MacKRELL, EDWIN ALLAN, 1532 East Twenty-Eighth St., Brooklyn, N. Y. (Age 40. Born Brooklyn, N. Y.) 1912 C. E., Cornell Univ. TT 4: P 4. 1911 to 1914 Transmittan, Canadian Pacific Ry., M. of W., centering curves, design of timber trestles, estimates, etc. TT 2.2: SP 1: P 1.2. 1914 to 1918 Leveler, New York State Dept. of Highways, location, line, grades for contractors, estimates of quantities and structures. TT 3.2: SP 0.5: P 2.7: RC 1: D 0.7. 1918 to 1922 Asst. Engr., Bessemer & Lake Erie R. R., on design of yard-track layout for ore docks, concrete retaining walls and steel girder overcrossings, estimates of quantities and prices of proposed concrete structures. TT 4: P 4: RC 2.5: D 1. 1922 to 1924 Engr. and Surveyor at Nashua, N. H., subdivisions, surveys, riparian right dispute cases, lines and grades for contractors. TT 2: P 2: RC 1. 1924 to 1926 Designer, Corrugated Bar Co., New York City, designed reinforced concrete, clay tile, flat slab and beam and girder structures, reinforced concrete oil tanks, retaining walls, estimates, etc. TT 2: P 2: D 2. 1926 to date Designer, Western Elec. Co., designed flat slab and beam and girder industrial buildings for heavy loads, etc. TT 2.3: P 2.3: D 2.3. TT 19.8: SP 1.5: P 18.3: RC 4.5: D 6.1. Refers to G. F. Baker, F. E. Ferris, E. E. Haskell, W. S. McFetridge, O. W. Mellin, H. T. Porter, F. J. Seery, V. G. Thomassen.

1413

(15) McCULLOUGH, STIRLING ENOCH, 708 Kirby Bldg., Dallas, Tex. (Age 29. Born Philadelphia, Pa.) 3 years student, Baltimore Polytechnic Inst. Also various correspondence school courses and short courses Imperial Coll. Science and Technology, London and Kings Coll., London. Aug. 1915 to Oct. 1917 Rodman, Instrumentman, Draftsman and Inspector, Baltimore & Ohio R. R. TT 1.1: SP 1.1. Nov. 1917 to Aug. 1919 with 23d Engrs., U. S. Army, as Draftsman on construction of highways, railroads, light railways and (6 months) on bridge design. TT 0.9: SP 0.9: D 0.5. Sept. 1919 to Sept. 1920 Asst. Engr., West Texas Eng. Co., in charge of construction of tank farms, pipe lines and pumping stations. TT 0.5: SP 0.5. Sept. 1920 to Oct. 1921 Instrumentman, Draftsman and Inspector, Wichita Falls & Southern R. R. TT 1.1: P 1.1. Nov. 1921 to July 1923 Asst. Res. Engr., Supt. on construc-

tion of hydraulic fill dam, Wichita County Water Improvement Dist. No. 1. TT 1.7: P 1.7: RC 1.7. Aug. 1923 to date (except Aug. 1927 to May 1928 on design and construction of central concrete mixing plants, L. E. Whitham Co.) with W. E. Callahan Constr. Co., engaged as follows: Aug. 1923 to Oct. 1924 Supt. on construction of distribution structures for Wichita County Water Improvement Dist. No. 1; Oct. 1924 to July 1926 Asst. Supt. on construction of Garza Dam (hydraulic fill dam and appurtenances) for City of Dallas; July 1926 to Aug. 1927 Supt. in charge, concrete pressure pipe line for Okmulgee, Okla. (6 months) and of paving, oil field exploration, Havana, Cuba (6 months); since June 1928 Estimator. TT 5.1: P 5.1: RC 5.1: D 0.8. TT 10.4: SP 2.5: P 7.9: RC 6.8: D 1.3. Refers to O. N. Floyd, J. B. Hawley, E. S. Heyser, J. L. Lochridge, H. F. McFarland, Jr., W. K. McIllyar, T. C. Shuler, R. A. Thompson, P. A. Welty, A. H. Woolverton.

1414

(1) McDONOUGH, CLARENCE, 134 Boulevard Haussmann, Paris, France. (Age 38. Born Gloversville, N. Y.) 1912 S. B. Mass. Inst. Tech. TT 4: P 4. Summer 1911 Engr., T. A. Gillespie Co., Massena, N. Y., on construction. June 1912 to March 1913 Structural Steel Draftsman, Eastern Bridge & Structural Co., Worcester, Mass., and (after Nov. 1912) Post & McCord, New York City. TT 0.4: SP 0.4. March 1913 to Sept. 1914 Draftsman, The Foundation Co., New York Office. and Foundation Co., Ltd., Montreal office. TT 0.7: SP 0.7. Sept. 1914 to March 1915 with Morrell Vrooman, Gloversville, N. Y., on water-works and sewerage systems for small towns in New York State. TT 0.5: P 0.5. March 1915 to date with The Foundation Co. engaged as follows: March 1915 to May 1916 Estimator and Field Engr. on construction in Western Pennsylvania and West Virginia; May 1916 to Sept. 1923 Dist. Engr., Pittsburgh Office, in charge of estimating and designing in Pennsylvania, West Virginia, Ohio and Kentucky; Sept. 1923 to Jan. 1926 Asst. Dist. Mgr. and Acting Dist. Mgr., Pittsburgh Dist., in charge of estimating, engineering and constructing; Jan. 1926 to Nov. 1927 Asst. Chf. Engr., New York; since Nov. 1927 Eng. Advisor and Co-Mgr. of Company's works in France, Belgium, Spain and Italy. TT 13.6: P 13.6: RC 12.3: D 9.2. TT 19.2: SP 1.1: P 18.1: RC 12.4: D 9.2. Refers to H. J. Deutschbein, G. L. Freeman, G. R. Johnson, C. D. Loveland, J. H. O'Brien, C. M. Spofford.

1415

(5) McGONEGAL, ALFRED RAWSON, 200 Clarendon Ave., Clarendon, Va. (Age 52. Born New York City.) 1900-1901 student in mathematics, George Washington Univ. 1896 Chainman on surveys, Ossining, N. Y. TT 0.1: SP 0.1. 1897 to 1898 Instrumentman and Inspector for Forsythe Bros., New York, on landscape architecture, sewage disposal, sea walls, etc., on estates. TT 0.6: SP 0.6. 1898 Instrumentman, Southern Bell Telephone Co., Atlanta, Ga. TT 0.1: SP 0.1. July 1898 to May 1899 with 3d U. S. V. Engrs., U. S. Army, in United States, and in Cuba on road survey, mapping, etc. TT 0.7: SP 0.3: P 0.4. July 1899 to date with District of Columbia, as Chainman, Rodman, Draftsman and Inspector, Sewer and Plumbing Depts., from 1901 to 1909 in charge of plumbing and sewage disposal in Washington schools and since then Head of office; during past 19 years has done planning and specification work on large buildings for various architects, also some architectural design and reinforced concrete work, acts as Consultant in court cases, etc. TT 27: SP 1: P 26: RC 19. TT 28.5: SP 2.1: P 26.4: RC 19. Refers to F. L. Averill, C. B. Ball, J. B. Gordon, C. B. Hunt, C. H. Tompkins.

1416

(9) McINTOSH, WILLIAM ROSCOE, 2400 Woodbourne Ave., Louisville, Ky. (Age 27. Born Leavenworth, Ind.) 1925 B. S. in C. E., Rose Pol. Inst. TT 4: P 4. Summer 1913 Rodman, April 1919 to Sept. 1921 and summer 1922 Asst. Engr. directing sidewalk construction, and summers 1923 and 1924 and June 1925 to July 1927 Special Employee, on design of street, alley and sidewalk grades, supervising subdivision layouts, street and alley dedications, Eng. Representative in accident cases, etc., and (after June 1925) also supervising house numbering and street sign installations, designs and construction of special structures direction of concrete alley construction, etc., all for Eng. Dept., Louisville, Ky. TT 3.3: SP 1.2: P 2.1: RC 2.1: D 2.1. July 1927 to date Asst. Prof. of Civ. Eng., Speed Scientific School, Univ. of Louisville, being Instructor, surveying, applied mechanics, mechanics of materials, sewerage and sewage disposal and design of steel structures. TT 1.2: P 1.2: RC 1.2: D 1.2. TT 8.5: SP 1.2: P 7.3: RC 3.3: D 3.3. Refers to G. R. Bickel, A. G. Butler, W. M. Caye, R. E. Hutchins, A. A. Krieger, R. L. McCormick, H. E. Read, W. E. Rodgers, W. B. Wendt.

1417

(3) MILES, RAYMOND THOMAS, 212 Walnut St., Corning, N. Y. (Age 24. Born Corning, N. Y.) 1928 B. S. E., Univ. of Mich. TT 4: P 4. Summer 1927 and July 1928 to date Jun. Asst. Engr., New York State Highway Dept., on construction. TT 0.2: SP 0.2: TT 4.2: SP 0.2: P 4. Refers to L. M. Gram, R. L. Morrison, J. S. Worley.

1418
(10) MURRAY, OLIVER HARWELL, Box 233, Russellville, Ala. (Age 23. Born Pulaaski, Tenn.) May 1923 to Nov. 1927 Inspector and Transitman, Alabama State Highway Dept., bridge inspection and instrument work. TT 3: SP 1.6; P 1.4; RC 1.4. Nov. 1927 to date with F. B. Brown, Cons. Engr., in charge of street paving in Russellville, Ala. TT 1: P 1: RC 1.4. TT 4: SP 1.6; P 2.4; RC 2.4. Refers to T. H. Aldrich, H. D. Burnum, W. P. Butler, J. R. Pill, R. L. Totten.

1419
(1) NADEAU, ROWLAND ALOYSIUS, Casilla 25, Caleta Abarca (Vina del Mar), Chile. (Age 36. Born St. Helen, Mich.) 1916 B. C. E., Univ. of Mich. TT 4: P 4. July 1916 to Aug. 1917 Draftsman, American Bridge Co., Ambridge, Pa. TT 0.6: SP 0.6. Aug. 1917 to March 1918 Field Engr., Public Works Dept., U. S. Naval Station, Great Lakes, Ill., in charge of surveys and outside construction of roads and sewers. TT 0.7: P 0.7; RC 0.4; D 0.3. May 1919 to Jan. 1920 and April to Aug. 1920 with Dupont Eng. Co., Flint, Mich., as Foreman and Asst. Supt., on construction of concrete foundations, pavements, sewers, etc., and (after April 1920) on estimating and cost work. TT 0.9: P 0.9; RC 0.6. Jan. to April 1920 Instrumentman in shipyard, A. Bentley & Sons Co., Jacksonville, Fla. TT 0.3: P 0.3. Aug. 1920 to Oct. 1927 with American Bridge Co., until Jan. 1921 as Draftsman, laying out and making drawings for heavy steel construction, such as train shed, large oil tank and section of elevated railroad, then Engr. in Estimating and Designing Dept., Pittsburgh, Pa. TT 7.2: P 7.2; RC 1: D 4. Nov. 1927 to date Chf. Engr., Compania de Maestranzas y Galvanizacion, Caleta Abarca, Chile, in charge of engineering for fabricating and erecting steel structures. TT 0.9: P 0.9; RC 0.9; D 0.6. TT 14.6: SP 0.6; P 14: RC 2.9; D 4.9. Refers to H. E. Cameron, J. H. Edwards, L. M. Gram, R. G. Manning, P. J. Reich.

1420
(4) NAGELE, GEORGE EVA, R. D. 1, Media, Pa. (Age 35. Born Philadelphia, Pa.) 1910-1913 student, Drexel Inst. TT 1.5: P 1.5. May to Dec. 1915 and April 1916 to date with Pennsylvania State Highway Dept. as follows: May to Dec. 1915 Timekeeper on construction; April to Dec. 1916 Supt.'s Clerk; Jan. 1917 to Jan. 1918 Foreman, and Jan. 1918 to March 1919 Gen. Foreman in charge, on maintenance; March 1919 to May 1924 Supt. of Highways, in charge of all work in Delaware County; since May 1924 Asst. Engr. in charge of maintenance in Bucks, Montgomery, Delaware, Chester and Berks Counties. TT 12: SP 1.2: P 10.8; RC 1.2; J 9.6. TT 13.5: SP 1.2: P 12.3; RC 9.6. Refers to A. F. Damon, Jr., W. E. A. Doherty, A. R. Hirst, C. E. Myers, D. C. Stackpole.

1421
(4) NAGLE, PAUL GOODMAN, Carlson Apartments, Renovo, Pa. (Age 23. Born Johnstown, Pa.) 1923 B. S., Pa. State Coll. TT 4: P 4. July 1923 to date Inspector, Pennsylvania State Highway Dept., checking construction on reinforced concrete arch bridge. TT 0.1: SP 0.1. TT 4.1: SP 0.1: P 4. Refers to G. W. Phillips, E. D. Walker.

1422
(11) NICHOLS, EARL ELMORE, 715 Howard St., Delta, Colo. (Age 26. Born Florence, Colo.) 1924 B. S. C. E., Univ. of Colo. TT 4: P 4. Summer 1923 Chf. of Survey Party, Colorado Power & Light Co., Denver, Colo. June to Dec. 1924 Draftsman and Field Engr., Utah Copper Co., Garfield, Utah. TT 0.2: SP 0.2. Dec. 1924 to March 1925 Reinforced Concrete Designer for turbine installation, Utah Power & Light Co., Salt Lake City, Utah. TT 0.2: SP 0.2. March to Aug. 1925 on layout of coarse crushing plant, conveyors, etc., Chile Exploration Co., Anaconda, Mont. TT 0.5: P 0.5; D 0.5. Aug. 1925 to Aug. 1928 Constr. Engr., Andes Copper Mining Co., Potrerillos, Chile, in charge of reinforced concrete, concrete testing, excavation, etc. TT 3: P 3; RC 3. TT 7.9: SP 0.4; P 7.5; RC 3; D 0.5. Refers to I. C. Crawford, F. R. Dungan, E. B. Nelson, W. B. Saunders.

1423
(10) OLIVER, WARREN HOUDLETTE, Jr., 456 Orange St., Macon, Ga. (Age 23. Born Macon, Ga.) 1928 B. S., Ga. School Tech. TT 4: P 4. Oct. 1926 to Jan. 1927 with City of Eastman, Ga., as Asst. to Engr. in charge of paving streets, sidewalks and laying sewerage system. TT 0.2: SP 0.2. Nov. 1927 to Feb. 1928 Engr., Southern Ferro Concrete Co., Macon, Ga., laying out buildings, establishing grades, also reinforced steel and concrete work for New Wesleyan Coll. at Rivoli. TT 0.2: SP 0.2. Feb. 1928 to date Engr. for Wesleyan Coll., laying out roads and paths and in charge of grading. TT 0.6: P 0.6. TT 5: SP 0.4; P 4.6. Refers to R. P. Black, J. J. Galliard, F. C. Snow, S. R. Young.

1424
(9) O'NEALL, EDGAR HOWARD, Thirty-First and Walnut Sts., Louisville, Ky. (Age 39. Born Crawfordsville, Ind.) A. B., Wabash Coll. 1910 to date (except 1917 to 1919 with Infantry Div., U. S. Army, finally as Capt.) on sales and promotional work, drainage and

culvert problems among engineers, with The W. G. O'Neill Co., Crawfordsville, Ind., and since 1919 also the Kentucky Culvert Mfg. Co. (affiliated), Louisville, Ky.; after 1919 work included management. TT 18: P 18: RC 18. Refers to M. J. Adams, J. T. Hallett, J. Kel- lam, J. S. Neibert, D. V. Terrell.

(7) OSTHOFF, OSCAR PAUL, 110 East Wisconsin Ave., Milwaukee, Wis. (Age 45. Born Milwaukee, Wis.) 4 years student, Univ. of Wisconsin. TT 2: P 2. Sept. 1912 to Dec. 1913 Engr. and Supt., Schnetzky & Son, Archts., Milwaukee, Wis., acting as Inspector and Super-visor on building construction. TT 0.6: SP 0.6. Dec. 1913 to Dec. 1915 Engr. and Supt., Dunphy-Friedstein Co., Contrs., designed and superintended construction of several large buildings. TT 2: P 2: RC 2. Dec. 1915 to Dec. 1918 and Dec. 1921 to Dec. 1923 Cons. Engr., Milwaukee, Wis., on building construction; during first period designed Waldheim Bldg. (10 stories, reinforced concrete, \$500 000), Plankinton Hotel (approx. \$350 000), and several smaller buildings (about \$300 000), and after 1921 designed (for A. C. Clas, Archt., Mil-waukee), Memorial Bridge (concrete, approx. \$1 000 000) and several large projects erected in Florida. TT 5: P 5: RC 2.5: D 2.5. Dec. 1918 to Dec. 1921 Constr. Engr., The Fraser Co., Cons. Engrs., Milwaukee, designed and superintended construction of several large flour mills. TT 3: P 3: RC 1.5: D 1.5. Dec. 1923 to Dec. 1927 Structural Engr., Martin & Tullgren & Sons Co., Archts., Milwaukee, designed hotels, apartments, etc. (\$350 000 to \$1 500 000, some named in application). TT 4: P 4: D 4. Dec. 1927 to date Cons. Engr., since May 1928 being Pres., Osthoff-Peterson Co., Inc., Milwaukee; handled over \$3 000 000 worth of work; at present Structural Engrs. for New Milwaukee County Court House (approx. cost \$7 000 000). TT 0.9: P 0.9: RC 0.7: D 0.2. TT 17.5: SP .06: P 16.9: RC 6.7: D 8.2. Refers to A. E. Cummings, C. R. Gow, L. E. Peterson, J. P. Schwada, J. W. Taussig.

(12) OVERSHINER, WILLIAM HUMPHREYS, P. O. Box 777, Fairbanks, Alaska. (Age 35. Born Santa Ana, Cal.) 1917 B. S. in Civ. Eng., Univ. of Cal. TT 4: P 4. 1912 to Aug. 1913, Dec. 1913, June 1914 and June 1915 Rodman and Chainman, successively for city and county engineers at Santa Ana, Cal. (over 1 month), for Orange County Highway Comm., Santa Ana, and for Alameda County Engr., Oakland, Cal., on surveys, etc. TT 0.4: SP 0.4. May 1917 to May 1925 Aide and Jun. Hydrographic and Geodetic Engr., U. S. Coast and Geodetic Survey, on various surveys, part of time in charge, and (about 1 year) compiling, interpreting and editing data on tides and currents in San Francisco Bay. TT 7.5: SP 0.5: P 7: RC 6: D 1. June to Sept. 1925 in office of Dist. Traffic Engr., Pacific Telephone & Telegraph Co., San Francisco, Cal., on traffic surveys and reports. TT 0.1: SP 0.1. Nov. 1925 to June 1926 in private practice of engineering and surveying, at Berkeley, Cal. TT 0.6: P 0.6: RC 0.6. Sept. 1926 to date Prof., and Head of Dept., of Civ. Eng. and Mathematics, Alaska Agricultural Coll. and School of Mines. Summers Transmittal with Fairbanks (Alaska) Exploration Co., on transmission line surveys (1927) and with Irving McK. Reed, Deputy Mineral Surveyor, Fairbanks (1928). TT 2.2: SP 0.2: P 2: RC 2. TT 14.8: SP 1.2: P 13.6: RC 8.6: D 1. Refers to F. H. Hardy, E. O. Heaton, C. V. Hodgson, G. C. Mattison, L. P. Raynor, G. T. Rude, P. C. Whitney.

(12) PAGE, NOLAN, 447 So. Summit St., Iowa City, Iowa. Graduating student awarded Portland, Ore., Section prize. (Age 23. Born Nemaha, Iowa.) 1928 B. S. in C. E., Ore. State Agri. Coll. At present graduate student, Univ. of Iowa; also (part of time) Asst. in surveying laboratory and to D. L. Yarnell of Bureau of Public Roads. TT 4: P 4. Refers to G. W. Holcomb, B. S. Morrow, H. S. Rogers, O. E. Stanley.

(15) PITTMAN, EVERETTE EDWARD, State Highway Dept., Austin, Tex. (Age 36. Born Fairfield, Tex.) Student (Junior) in Civ. Eng., State Univ. of Texas. TT 1: P 1. Summer 1915 Draftsman, T. & B. V. R. R. March 1917 to May 1918 with City of Dallas, Tex., until March 1918 as Draftsman, acting as Asst. to Drainage Engr., on outside investigation, map- ping and estimates for sewer construction, then Chf. of Party on paving surveys. TT 1.2: P 1.2: RC 0.2. May to Sept. 1918 Office Engr. for O. W. Finley, Reclamation Engr., on levee construction and drainage work, supervising plans, specifications, contractor's estimates, etc. TT 0.3: P 0.3. April 1919 to date with Texas State Highway Dept., as follows: April 1919 to May 1920 Draftsman; May 1920 to Sept. 1922 Chf. Draftsman, supervising checking of plans, specifications and estimates for State and Federal Aid projects; Sept. 1922 to June 1923 Div. Engr. supervising preliminary investigations, plans, construction and main- tenance of approx. 1 500 miles of State highways; since June 1923 Office Engr. supervising plans, specifications and estimates for all road projects. TT 9.3: P 9.3: RC 8.3. TT 11.8: P 11.8: RC 8.5. Refers to E. C. H. Bantel, J. A. Focht, G. Gilchrist, O. A. Seward, Jr., M. C. Weiborn, G. G. Wickline.

1429 **(1) POGANY, ANDREW,** 143 West 74th St., New York City. (Age 33. Born Budapest, Hungary.) 1920 C. E., Royal Tech. Univ. of Budapest. *TT 4: P 4.* July 1920 to March 1922 with South Swedish Power Co., Malmo, Sweden, as Designer of concrete and steel for hydro-electric developments, preliminary investigations, Field Engr. *TT 1.6: P 1.6.* May 1922 to Sept. 1923 with M. Walter & Co., Bldrs., Worms a Rh., Germany, as Asst. Supt. for concrete industrial buildings (Lanz-Very machine factory, Zweibruecken, Germany.) *TT 1.4: P 1.4: RC 1.4.* Feb. 1924 to June 1926 Hydr. Designer, Elec. Bond & Share Co., New York City, hydro-electric developments, steam plants, investigations. *TT 2.4: P 2.4.* June 1926 to March 1928 with The Foundation Co., Eng. Dept., New York City, as Designer of industrial buildings, Field Engr. and Asst. Supt. on power plant for Prudential Life Insurance Co., Newark, N. J. *TT 1.8: P 1.8: RC 1.1.* March 1928 to date with O. S. Schlich, Cons. Engr., New York City, as Archt.'s Representative on construction, manufacturing plant for Agfa-Ansco Corporation, Binghamton, N. Y. *TT 0.6: P 0.6: RC 0.6.* *TT 11.8: P 11.8: RC 3.1.* Refers to G. Blaauw, W. E. Brown, G. L. Freeman, W. S. Merrill, O. S. Schlich, H. H. Steinhauser, H. R. Stocker, A. C. Weiser.

1430 **(5) REESE, MARSHALL HUDSON,** U. S. Coast and Geodetic Survey, Washington, D. C. (Age 24. Born Arcadia, La.) 1928 B. C. E., La. State Univ. At present with U. S. Coast and Geodetic Survey, Washington, D. C. *TT 4: P 4.* Refers to T. W. Atkinson, J. H. Bateman, B. W. Pegues.

1431 **(14) RENARD, EUGENE CHARLES,** 327 North Taylor Ave., St. Louis, Mo. (Age 39. Born Pointe-a-Pitre, Guadeloupe.) Bachelor es-lettres, Lycee Carnot, Pointe-a-Pitre, Guadeloupe. 1919 B. S. in Civ. Eng., Washington Univ., St. Louis, Mo. *TT 4: P 4.* June 1919 to July 1921 Asst. City Engr., Maplewood and Webster Groves, Mo., in charge of surveys, plans, estimates, supervision of construction on paving, drainage and sewer projects. *TT 2: P 2: RC 1.* July 1921 to Aug. 1922 Asst. Civ. Engr., Wildmer Eng. Co., in charge of surveys, laying out grades, cost keeping on construction of industrial buildings. *TT 1: P 1: RC 1.* Aug. 1922 to Aug. 1923 Engr. in Chg. of Constr., Unit Constr. Co., surveys, cost keeping, reports, estimates and supervising road construction. *TT 1: P 1: RC 1.* Aug. 1923 to Feb. 1924 Supt. of Constr., Bridges Asphalt Paving Co., paving. *TT 0.5: P 0.5: RC 0.5.* Feb. 1924 to date Civ. Engr. (Grade P E C III), Bridges and Bldgs. Div., St. Louis, in charge of bridge construction, being Chf. of Party on preliminary surveys, preparing plans, making estimates and designing bridges and buildings. *TT 4.5: P 4.5: RC 1.5: D 2.5.* *TT 13: P 13: RC 5: D 2.5.* Refers to L. R. Bowen, W. R. Crecellius, H. E. Frech, C. E. Galt, W. Stocker, A. J. Wildmer.

1432 **(2) RICH, RICHARD HENRY,** 196 Norton St., New Haven, Conn. (Age 54. Born Bucksport, Me.) 1891-1892 student, special course, and June 1892 to Aug. 1895 (evenings) extension courses, Massachusetts Inst. of Technology. 1893 to 1898 attended Civ. Eng. lectures, Lowell Free Courses. Sept. to Nov. 1895 Rodman and Instrumentman, Salem-Peabody (Mass.) Sewerage Survey. *TT 0.1: SP 0.1.* Nov. 1895 to April 1910 with Boston & Maine R. R., until Jan. 1903 as Rodman and Transitman, Eng. Corps, in charge of field party (May 1900 to Dec. 1902) on maintenance, relocation and construction, had charge of improvement of Portland & Rochester R. R. from Rochester to Gorham, Me., and after Jan. 1903 Asst. Engr. in charge of field party on maintenance and construction, and grade separation; 1906 to 1908 had charge of double tracking Gloucester Branch, Magnolia to West Gloucester. *TT 11.8: SP 2.5: P 9.3: RC 9.3.* April 1910 to date with New York, New Haven & Hartford R. R., as follows: April 1910-Dec. 1911 Second Asst. Engr. and Draftsman on resurvey, preparing resurvey right-of-way maps; 1912-1913 Asst. Engr., Real Estate Dept., in charge of field parties and office on relocation and resurvey work; Jan. 1914-Feb. 1920 Asst. Engr. of Real Estate, in charge of field parties, title examiners and maintenance of resurvey maps; March 1920 to April 1925 Asst. Engr. of Surveys, in charge of field parties, title examiners and office, property line determination and maintenance of valuation maps; since April 1925 Engr. of Surveys, Lines West, in charge of office and field parties and direction of work of title examination, conveying and maintenance of land maps. *TT 18.2: P 18.2: RC 16.6.* *TT 30.1: SP 2.6: P 27.5: RC 25.9.* Refers to J. H. F. Clark, W. T. Dorrance, E. Gagel, F. E. Hanson, C. R. Harte, A. H. Terry.

1433 **(13) RICHARDSON, ARTHUR LELAND,** Box 71, Applegate, Cal. (Age 49. Born Golden-dale, Wash.) 1900 to 1908 County Engr., Killekat County, Wash., in charge of road and bridge work. *TT 8: P 8: RC 8: D 8.* 1909 to Nov. 1911 in private practice, on water-works systems at Forest Grove, Willamina, Toledo and Joseph, Ore. *TT 2.8: P 2.8: RC 2.8:*

D 2.8. Nov. 1911-1913 in private practice with J. L. Stannard, on water-works systems at Carlton, Cornelius, Beaverton, Falls City and Hillsboro, Ore., Woodland and Olympia, Wash., valuation, Raymond, and reservoir at Aberdeen, Wash., pavement at Forest Grove, and pavement and sewer systems at Tillamook and Bay City, Ore. TT 2.1: P 2.1: RC 2.1: D 2.1. 1914 to 1915 Gen. Contr. with J. M. Ambrose, on bridge and road work. TT 1: P 1: RC 1. 1915 to June 1924 Chf. Draftsman and Asst. Engr., M. of W. Dept., Southern Pacific Co. TT 9.4: P 9.4: RC 9.4: D 9.4. June 1924 to date Asst. Constr. Engr., California Highway Comm., Bridge Dept., Sacramento, Cal. TT 4.3: P 4.3: RC 4.3: D 4.3. TT 27.6: P 27.6: RC 27.6: D 27.6. Refers to C. E. Andrew, F. W. Panhorst, M. E. Reed, W. J. Roberts, J. L. Stannard.

1434

(1) SCHWARZENBACH, PETER, 48 West Eighty-Second St., New York City. (Age 24. Born Kilchberg, Switzerland.) 1927 C. E., Swiss Federal Pol. Inst., Zurich, Switzerland. TT 4: P 4. Refers to J. R. Freeman, K. E. Hilgard.

1435

(14) SCOTT, GUY ROBERT, 7167 B Lyndover, St. Louis, Mo. (Age 30. Born Duenweg, Mo.) 1924 B. S. in Civ. Eng., Mo. School of Mines and Metallurgy. TT 4: P 4. July to Oct. 1922 Surveyor, Louisiana Oil and Refinery Corporation. TT 0.1: SP 0.1. Oct. 1922 to Feb. 1923 Timekeeper, Blodgett Constr. Co., Shreveport, La., on dam construction. TT 0.2: SP 0.2. March to Sept. 1923 Draftsman, Missouri Highway Dept. TT 0.3: SP 0.3. March 1924 to Aug. 1925 Engr., Burns & McDonnell Eng. Co., being Draftsman in office and in field on surveys for hydro-electric development on Osage River, Mo., and in charge of diamond drill investigation of foundation for dam, etc. TT 0.9: SP 0.4: P 0.5: RC 0.5. Aug. 1925 to Jan. 1926 with Chas. B. Hawley Eng. Co., in charge of diamond drill investigation of foundation for dam on Osage River. TT 0.4: P 0.4. Oct. 1919 to Aug. 1920 Rodman and Draftsman, and March to July 1926 Draftsman, etc., Marland Refining Co., Ponca City, Okla. TT 0.6: SP 0.6. Sept. 1927 to May 1928 Instructor of Descriptive Geometry, Missouri School of Mines and Metallurgy. TT 0.7: P 0.7. Aug. 1926 to Sept. 1927 and May 1928 to date with Black & Veatch, Cons. Engrs., on preliminary surveys for water supplies, reconnaissance survey and report for hydro-electric development, structural design of water-purification and sewage-disposal plants, and (since May 1928) in charge of design of sewers for St. Louis County, Mo. TT 1.5: P 1.5: RC 0.9: D 0.9. TT 8.7: SP 1.6: P 7.1: RC 1.4: D 0.9. Refers to E. B. Black, E. G. Harris, C. E. Jacoby, R. E. McDonnell, C. V. Mann, W. Stoecker, N. T. Veatch, Jr.

1436

(1) SCOTT, WALTER BRAMAH, Santa Marta, Colombia. (Age 35. Born Guelph, Ont., Canada.) 1916 B. A. Sc., Univ. of Toronto. TT 4: P 4. Sept. 1918 to Jan. 1920 Draftsman, Pennsylvania R. R. Co., Oil City, Pa., on plans of masonry abutments, concrete culverts and arches, etc., yard surveys, layouts and changes, location and inspection of construction of timber roundhouse, 100-ft. turntable, coaling stations, etc., estimates of bridge masonry, etc. TT 1.3: P 1.3. Jan. to Aug. 1920 Chf. Draftsman with Blackshire & Mercer, Searcy, Ark., on highway construction, plans and estimates of concrete culverts, arches, timber trestles, bridge masonry, etc., inspection and supervision of construction of light structures. TT 0.5: P 0.5. Aug. 1920 to July 1923 with Barahona Sugar Co., until April 1922 as Asst. Engr. on topography and location and construction of main canals, laterals, syphons, checks, drops, distributing gates, bridges, etc., and after April 1922 Div. Engr. on design and construction of syphons, checks, drops, distributing gates, timber and steel flumes, all irrigation structures, construction of 60- and 100-acre-ft. earth reservoirs, meter-gauge railroad, etc. TT 3: P 3: RC 1.3. March 1924 to Jan. 1925 with Southern Ry. Co., Washington, D. C., as Jun. Engr. on inspection of construction of 47-stall concrete roundhouse at Spencer, N. C., and Res. Engr. on concrete coaling-station at Weyburn, Va. TT 0.8: P 0.8: RC 0.8. Jan. 1925 to Nov. 1926 with Florida East Coast R. R. Co., St. Augustine, Fla., until Sept. 1925 as Asst. Engr. on design of freight yards near Jacksonville, Fla., and at Ft. Pierce, Fla., and freight facilities at West Palm Beach, Fla., then Res. Engr. on construction of freight facilities at West Palm Beach and Lake Worth, Fla., and freight yard at Ft. Pierce. TT 1.9: P 1.9: RC 1.2. June 1927 to date Office Engr., United Fruit Co., Santa Marta, Colombia, in charge of designs, plans, etc., for irrigation and drainage systems. TT 1.3: P 1.3: RC 1.3: D 1.3. TT 12.8: P 12.8: RC 4.6: D 1.3. Refers to A. H. Ayers, J. L. Burkholder, B. L. Crenshaw, F. F. Friend, J. J. Gantt, P. H. Glover, F. W. Stephens.

1437

(10) SHEDDAN, WILLIAM EAKIN, 2056 Ernest St., Jacksonville, Fla. (Age 44. Born Williamsport, Tenn.) 1908 B. S. in M. E., John B. Stetson Univ. 1917 to 1919 1st Lieut., Engrs. Reserve Corps, U. S. Army, after July 1918 Capt., National Army, operating cement mill at La Tell, France; also commanding troops. TT 2: P 2: RC 2. 1909 to date (except

1917 to 1919) with City of Jacksonville, Fla., engaged as follows: 1909 to 1911 Draftsman, Sewer, Water and Elec. Depts., assisted on design of 3,000,000-gal. reinforced reservoir, etc.; 1911 to 1912 supervised construction of reservoir ($\frac{1}{2}$ year) and was Asst. Supt. in charge of water-main extensions, superintending construction of foundations for pumps and pumping station, maintenance work; 1919 to 1921 Asst. City Engr., in responsible charge of Sewer Dept., construction and maintenance; since Nov. 1921 City Engr. in responsible charge of all engineering for Highway and Sewer Depts., including design and construction of pavements, sewers and drainage (construction approx. \$1,000,000, operation and maintenance approx. \$500,000 annually). TT 17.3: P 17.3: RC 14.9. TT 19.3: P 19.3: RC 16.9: D 2.5. Refers to R. M. Angas, C. C. Brown, H. H. Buckman, W. W. Fineren, W. N. McDonald, M. Pirnie, G. W. Simons, Jr., G. A. Youngberg.

(1) **SIMMONS, THOMAS PARK**, United Fruit Co., Santa Marta, Colombia. (Age 34. Born Lafayette, Ga.) 1917 B. S. in C. E., N. C. State Coll. of Agri. and Eng. TT 4: P 4. Jan. to March 1919 Rodman, U. S. Base Hospital No. 19, Transilman on topographic surveys and road location. TT 0.1: SP 0.1. April 1919 to date with United Fruit Co., until March 1928 successively as Engr. (acting as Field Engr. and Chf. of Party), Chf. Farm Engr. and (after Dec. 1925) Asst. Chf. Engr. in charge (under Gen. Supt.) of Eng. Dept., Truxillo R. R. Co. (Puerto Castillo Div.) work included banana farm plans and surveys, topographic surveys, field maps, design, location and construction of drainage and irrigation systems, water supply and railways, etc.; since April 1928 Asst. Div. Engr., Colombia Div. in charge (under Div. Engr.) of design and location of drainage and irrigation systems, topographic and banana farm surveys, levee construction. TT 9.2: SP 0.1: P 9.1: RC 8.6: D 2. TT 13.3: SP 0.2: P 13.1: RC 8.6: D 2. Refers to H. Parker, H. Tucker, (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

(5) **SIMPSON, WILLARD DEWEY**, 1273 New Hampshire Ave., N. W. Washington, D. C. (Age 30. Born Tyner, Kans.) 1923 B. S. in C. E., Ore. State Coll. TT 4: P 4. Summer 1919 Chairman, Oregon State Highway Comm. April to Sept. 1920 Transilman, Levelman and some topography, Klernan Flora Logging Co., Kerry, Ore. Summer 1921 Student, U. S. Army Engr. Training Camp, Camp Humphries, Va. Summer 1922 Transilman, Computer and Draftsman, Benton County, Corvallis, Ore., field and office work for road location. June 1923 to Aug. 1926 Draftsman, Detailer and Designer, Oregon State Highway Comm., Bridge Dept., drafting, computing, and design from field notes and engineers' sketches, etc. TT 3.3: P 3.3: RC 2: D 1. Sept. 1926 to date Asst. Structural Engr., Bureau of Yards and Docks, Navy Dept., Washington, D. C., designing, checking and correcting engineering plans. TT 2.1: P 2.1: RC 2.1: D 2.1. TT 9.4: P 9.4: RC 4.1: D 3.1. Refers to W. S. Anderson, C. B. McCullough, B. Moreell, G. S. Paxson, L. H. Sinclair.

(12) **SMITH, DEXTER RALPH**, 321 South Ninth St., Corvallis, Ore. (Age 37. Born Portland, Ore.) 1914 B. S. in C. E., Ore. State Agri. Coll. TT 4: P 4. July 1914 to June 1919 Instructor in, Sept. 1919 to June 1925 Asst. Prof. of, and Sept. 1925 to Jan. 1928 Associate Prof. of Civ. Eng., Oregon State Agricultural Coll. Summers with Bureau of Public Roads, Portland, as Structural Draftsman, designing, checking and drafting highway bridges (1919), designing and checking bridges (1922) and Res. Engr. in charge of construction successively of Prospect and Mt. Hoop Loop reinforced concrete arch bridges, Randle-Yakima highway bridges, Hell Gate Bridge over Rogue River and Lightning Creek Bridge, Clarks Fort Highway, Montana (1923-1927). Summer 1920 Field Engr. on paving construction, City of Portland. Summer 1921 Structural Engr. and Designer, Corvallis General Hospital, assisting Prof. Stuart Sims. TT 13.5: P 13.5: RC 8.3: D 6.6. TT 17.5: P 17.5: RC 8.3: D 6.6. Refers to J. A. Elliott, C. B. McCullough, C. H. Purcell, H. S. Rogers, R. B. Wright.

(15) **STRANGE, JOHN HANSEL**, 913 North Thirtieth St., Waco, Tex. (Age 29. Born Mart, Tex.) 1923 B. S., Agri. and Mech. Coll. of Tex. TT 4: P 4. June 1922 to Feb. 1923 Instrumentman in charge of party on highway construction, also Concrete Inspector on bridge work for McLennon County, Waco, Tex. TT 0.6: P 0.6. June 1923 to date with City of Waco, until April 1926 as Asst. City Engr. in charge of paving, bridge and sanitary work, then Acting City Engr., and since Oct. 1926 City Engr., in charge of all engineering. TT 5.4: P 5.4: RC 2.6: D 1. TT 10: P 10: RC 2.6: D 1. Refers to C. T. Bartlett, M. Hannah, J. T. L. McNew, T. J. Palm, J. W. Porter, D. E. Proper.

(1) **STUMPF, RICHARD THOMAS**, 1411 Ave I, Brooklyn, N. Y. (Age 27. Born Watertown, N. Y.) 1925 C. E., Cornell Univ. TT 4: P 4. May 1925 to date with James H. Fieries, Cons. Engr., as follows: May to Aug. 1925, Sept. to Nov. 1925, June to Aug. 1926

and Sept. 1927 to May 1928 Res. Engr. at Harrisburg, Pa., successively on reinforced concrete river-protection works and retaining wall, replacing structures and installing additions to filter plant and relaying 36-in. return water main from reservoir; Aug. to Sept. 1925 drafting; Aug. 1926 to Sept. 1927 drafting and design of sewers for Lynbrook, N. Y., Elizabeth, N. J., and Harrisburg; Dec. 1925 to June 1926 and May to Sept. 1928 Chf. of field parties on water line survey of Harrisburg, and (after May 1928) on sewer survey of Linden, N. J. TT 2.8: SP 0.4: P 2.4: RC 1.2: D 0.4. TT 6.8: SP 0.4: P 6.4: RC 1.2: D 0.4. Refers to J. H. Fuentes, R. H. Gould, F. H. Weed.

1443

(1) TANAKA, HISASHI, 323 West 108th St., New York City. (Age 29. Born Tokyo, Japan.) 1927 B. S. in Arch. Eng., and 1928 M. S. in Theoretical and Applied Mechanics, Univ. of Ill. TT 4: P 4. Refers to R. L. Bertin, H. Cross, N. D. Morgan, F. E. Richart, H. M. Westergaard, W. M. Wilson.

1444

(15) TANNER, WILLIAM SHERMAN, Eng. Dept., Dallas, Tex. (Age 33. Born Waco, Tex.) May 1911-Feb. 1912, April 1912-Jan. 1913 and June-Oct. 1913 Analyst successively with Dr. H. A. Tremaine, Denver, Colo., State Geological Survey, Colorado, and Texas Portland Cement Co. TT 1: SP 1. Feb.-May 1913 and May-Sept. 1914 Rodman on railroad location. TT 0.4: SP 0.4. Nov. 1913-April 1914 and Oct. 1914-April 1915 Rodman and Recorder, U. S. Engrs., Trinity River. TT 0.6: SP 0.6. May-Sept. 1915 Inspector, Ferris (Tex.) Sewer System. TT 0.2: SP 0.2. Oct. 1915-Jan. 1917 Rodman, Inspector and Draftsman, Dallas Sewer Dept. TT 1.2: SP 0.2: P 1. Feb. to May 1917 Draftsman, and June-Sept. 1919 Instrumentman, Texas & Pacific R. R. TT 0.6: P 0.6. May-Sept. 1917 Instrumentman and Draftsman, Dallas County. TT 0.3: P 0.3: D 0.2. Oct. 1917-May 1918 Testing Engr., City Eng. Dept., Dallas. TT 0.7: P 0.7: RC 0.7. June-Nov. 1918 at Artillery Officers' Training School, U. S. Army, Camp Taylor. TT 0.2: SP 0.2. Dec. 1918-May 1919 Draftsman, Forth Worth & Denver City Ry. Co. TT 0.5: P 0.5. Oct. 1919-April 1921 Instrumentman, Accountant, Estimator and Office Engr. with E. L. Martin, Dallas, Tex. TT 1.6: P 1.6: RC 1. May-July 1921 Computer with Nagle, Witt & Rollins, Dallas. TT 0.2: P 0.2. July-Aug. 1921 on bridge contract, Muskogee, Okla.; T. P. Clontz, Engr. TT 0.2: P 0.2: RC 0.2. Nov. 1921-Feb. 1922 on paving surveys, plans and estimates; E. L. Dalton, Dallas. TT 0.3: P 0.3: RC 0.3: D 0.2. March-Oct. 1922 on surveys, plans, estimates and construction, with Moseley & Fountain, Dallas. TT 0.7: P 0.7: RC 0.7: D 0.3. Nov. 1922-April 1924 on water supply, railroad terminal facilities (J. D. Trammel). TT 1.5: P 1.5: RC 1.5: D 1. May 1924-Sept. 1928 on paving, structural design, drainage and sanitation, Eng. Dept., Dallas. TT 4.5: P 4.5: RC 4.5: D 2.7. TT 14.7: SP 2.6: P 12.1: RC 8.9: D 4.4. Refers to S. W. Freese, D. F. Horton, E. L. Myers, E. N. Noyes, W. J. Powell, E. A. Wood.

1445

(4) VOLCKER, PAUL ADOLF, 825 Washington St., Cape May, N. J. (Age 39. Born Hoboken, N. J.) 1911 C. E., Rens. Pol. Inst. TT 4: P 4. July 1911 to April 1914 Rodman, Leveler and Asst. Engr., New York State Engr. Dept., on Barge Canal Construction, on line and grade, inspection and estimates, later in responsible charge of field construction of bridge abutments and superstructures, locks, dam and power house, dredging, steel sheet piling, crib cofferdams, etc. TT 1.7: SP 1: P 0.7: RC 0.4. April 1914 to Jan. 1916 Asst. Engr., New York State Highway Comm., on road construction (Belgian block, brick and macadam), in Cayuga and Oswego Counties; made design, survey and estimates. TT 1.2: SP 0.5: P 0.7: RC 0.4: D 0.3. Jan. 1916 to Nov. 1922 City Engr., Lebanon, Pa., completed about \$1,500,000 worth of public improvements, including second and third units of sewage-disposal plant (Imhoff tank and trickling filters), sanitary sewers, flood prevention project (including storm sewers), paving, reinforced concrete culverts and small bridges, preliminary investigations of new water supply. TT 6.8: P 6.8: RC 2: D 3. Nov. 1922 to May 1925 Gen. Mgr., Lebanon Chamber of Commerce. May 1925 to date City Mgr. (Chf. Executive Officer), Cape May, N. J., about one-third of time on engineering; construction included new board walk, water plant, beach-protection structures, strengthening and rebuilding public buildings, etc., supervises Police, Fire, Street and Water Depts., engineering, etc.; (budget about \$325,000, capital expenditure about \$100,000, annually). TT 1.5: P 1.5: D 0.5. TT 15.2: SP 1.5: P 13.7: RC 2.8: D 3.8. Refers to W. H. Collisson, Jr., C. A. Emerson, Jr., V. Gelineau, J. C. Remington, Jr., H. J. Sherman, H. Souder.

1446

(3) WALTER, HENRY WESLEY, 39 Wardman Rd., Kenmore, N. Y. (Age 34. Born Allentown, Pa.) 1916 B. S., Ohio Wesleyan Univ. 1916 to June 1918 Draftsman on plant maintenance, Corning (N. Y.) Glass Works, structural designing, machinery layouts, inspection of construction and surveys. TT 0.8: SP 0.8. June 1918 to April 1921 and Sept. 1922 to

March 1923 with Walter McCulloh, Cons. Engr., Niagara Falls, N. Y., successively in charge of field party on U. S. Govt. housing, surveys, drafting (1 year), Asst. Engr. in charge of construction, U. S. Ferro Alloys Plant ($\frac{1}{2}$ year), Engr. in charge of construction of large addition (over 1 year), and on design and erection of factory building (after Sept. 1922) for Shredded Wheat Co., also surveys, estimates, designs and construction inspection on other projects. TT 3.2: SP 0.4: P 2.3: RC 1.9: D 0.9. April 1921 to Sept. 1922 with Niagara Falls Power Co., as Asst. to Engr. of Costs on \$13 000 000 power development, cost keeping on construction, progress records and inspections, calculation of quantities. TT 1.5: P 1.5. March 1923 to April 1925 Contr. and Engr., built twelve houses and three school tennis courts and playgrounds, made surveys and designs for Niagara Falls industrial plants, other surveys, etc. TT 2.2: P 2.2: RC 2.2: D 1. April 1925 to June 1927 with City of Niagara Falls, first with Bureau of Eng. in charge of field party, laying out sewers, water lines, paving, etc. (6 months), and in drafting room, plotting surveys, sewer profiles, designed small concrete dam and two buildings (about 3 months) and after Jan. 1926 Deputy Bldg. Commr., checked structural designs, investigated new building materials, tests, reports and inspections; also on private work, designing in structural steel, including commercial garage, large factory building, churches, apartments, etc. TT 2.1: P 2.1: RC 1.9: D 1.6. June 1927 to date Sales Engr., Bethlehem Steel Corporation, Buffalo and Toronto territories, keeps architects, engineers and fabricators informed on structural shapes and methods of design, assists with, and advises on, designs, reports on projects, etc. TT 1.1: SP 0.1: P 1: RC 1: D 0.2. TT 10.9: SP 1.3: P 9.6: RC 7: D 3.7. Refers to O. D. Dales, W. McCulloh, A. W. Pierson, L. M. Sanford, S. J. Stone.

1447

(11) WATSON, HAROLD HARRY, 3915 Alameda Pl., San Diego, Cal. (Age 38. Born Wetmore, Colo.) 1909-1910 student in Mech. Eng., Univ. of Colorado. TT 0.5: P 0.5. Aug. 1911 to Sept. 1912 Instrumentman and Draftsman, Feb. 1913 to Jan. 1916 Draftsman, Engr. and Test Engr., and Nov. 1918 to April 1919 Engr., Arkansas Valley Ry. Light & Power Co., Pueblo, Colo., drafting, designing, surveying, estimates, valuation reports, testing and construction work, etc., for power plants, transmission and distribution lines and street railway system. TT 3.2: SP 1.3: P 1.9: RC 1.9: D 1.5. Sept. 1912 to Feb. 1913 Instrumentman, Tennessee Power Co., Murfreesboro, Tenn., surveying and locating transmission towers on high-tension line, in responsible charge of construction camp, delivery of construction material, etc. TT 0.2: SP 0.2. Jan. 1916 to July 1918 Res. Constr. Engr., H. M. Byllesby Co., Chicago, for Arkansas Valley Ry., Light & Power Co., Canon City, Colo., and Ft. Smith (Ark.) Light & Traction Co., being Res. Engr. in charge of execution of plans and designing of parts of work for 7 500-kw. steam plant and 4 000-kw. extension. TT 2.5: P 2.5: RC 2.5: D 2.5. July to Nov. 1918 with U. S. Army, at Vocational School, Univ. of Colorado, and Central Infantry Officers' School, Waco, Tex. TT 0.2: SP 0.2. Dec. 1919 to date Gen. Constr. Supt., Byllesby Eng. & Mgt. Corporation, in direct charge construction, designing construction plants and deficiencies and errors in plans, until Dec. 1921 of hydro and steam power plants for Northern States Power Co., at Sioux Falls, S. Dak., Mankato, Minn., and Ottumwa, Iowa, then of steam-power plants, gas-plant generators, and compressors, electric substations, etc., for San Diego Consolidated Gas & Elec. Co. TT 8.7: P 8.7: RC 8.7: D 6. TT 15.3: SP 1.7: P 13.6: RC 13.1: D 10. Refers to A. F. Garlinghouse, L. M. Klauber, J. W. Link, G. E. Loughland, W. B. Rittenhouse, E. D. Uhlendorf, W. T. Walker.

1448

(1) WEST, LESLIE ELLIOTT, 712 Stuyvesant Ave., Irvington, N. J. (Age 25. Born Buffalo, N. Y.) Prof. Engr. and Land Surveyor, State of New Jersey. 1925 B. S. in Civ. Eng., Rutgers Univ., New Brunswick, N. J. TT 4: P 4. 1919 to 1923 Asst. Engr. and Surveyor with I. J. Casey, Jr., Civ. Engr. and Surveyor and City Engr. of Irvington, N. J., on street design, sewers, municipal improvements, surveys, developments. TT 3.5: SP 1: P 2.5: RC 2.5. 1928 member of firm, Casey & West, Engrs. and Surveyors on concrete highway design, sewerage and surveys, etc. TT 0.7: P 0.7: RC 0.7. TT 3.2: SP 1: P 7.2: RC 3.2. Refers to S. W. Gollinski, H. W. Hellmann, E. S. Rankin, I. T. Redfern, E. H. Rockwell.

1449

(10) WHITE, LEON MOORE, Box 111, Sandersville, Ga. (Age 21. Born Charleston, S. C.) 1928 B. S. in C. E., Clemson A. & M. Coll. of S. C. TT 4: P 4. June 1928 to date Street Inspector, Harwood Beebe Co. of Spartanburg, S. C. TT 0.2: SP 0.2. TT 4.2: SP 0.2: P 4. Refers to H. Beebe, E. L. Clarke.

1450

(5) WIDMAYER, JOHN JOSEPH, Deusch Bldg., Vermont Ave., Washington, D. C. (Age 38. Born Washington, D. C.) 1909 B. S. and M. S., St. Johns Coll., Washington, D. C. 1913 B. S. in Civ. Eng., Catholic Univ. of America. TT 4: P 4. June 1913 to June 1918 in

charge of Dept. of Eng. Drafting, Catholic Univ. of America. TT 5: P 5: RC 5. June 1918 to March 1921 Structural Engr., Bureau of Yards and Docks, Navy Dept., Washington, D. C. TT 2.7: P 2.7: D 2.7. March 1921 to March 1925 sales and structure designing, until May 1923 with Concrete Steel Co., Washington, then with Dietrich Bros., Baltimore, Md., in charge of Washington office. TT 3.9: P 3.9: RC 1.7: D 2.2. March 1925 to date Pres., Widmayer Steel, Inc., Washington, D. C., reinforcing steel and structural designing, having supervision of latter. TT 3.5: P 3.5: RC 3.5. TT 19.1: P 19.1: RC 10.2: D 4.9. Refers to W. P. Darwin, T. W. Marshall, P. Remsen, M. S. Rich, A. J. Scullen, C. A. Weiller.

1451

(1) YASINES, STAN FRANZ, New York Univ., New York City. (Age 26. Born Batum, Caucasus, Russia.) 1928 B. S. C. E., Coll. of Applied Sci., Syracuse Univ. TT 4: P 4. Summer 1927 Transitman and Asst. Field Engr., Westchester County San. Comm., White Plains, N. Y. June to Aug. 1928 Structural Draftsman and Reinforced Concrete Designer, Atmospheric Nitrogen Corporation, Syracuse, N. Y. Sept. 1928 to date Instructor in Surveying, Hydr. and Material Testing Laboratories, Coll. of Eng., New York Univ. TT 0.3: SP 0.8. TT 4.3: SP 0.3: P 4. Refers to S. N. Grimm, W. A. Lyon, L. Mitchell, M. B. Palmer, S. D. Sarason.

1452

(8) YEAGER, OSWALD KARL, 440 North Gilbert St., Danville, Ill. (Age 40. Born Danville, Ill.) 1911 B. S., Univ. of Ill. TT 2: P 2. July 1911 to date (except July 1918 to July 1919 Capt., U. S. Army Constr. Div., Raritan Ordnance Depot, Frankfort Arsenal, Camp Knox, Ky., being Executive Officer in charge of construction) with Yeager & Sons, Bldrs., engaged as follows: July 1911 to Jan. 1914 Field Supt. in charge of work in Ohio, Pennsylvania, Massachusetts and Illinois; Jan. 1914 to July 1918 Office Mgr., in charge of material purchasing, design, job planning and estimating; July 1919 to Jan. 1923 Gen. Supt. of design and work under construction in Illinois, Indiana and Ohio; since Jan. 1923 Owner and Gen. Mgr., on construction, design, building construction, reinforced concrete, masonry, etc. TT 17.3: P 17.3: RC 14.8: D 2.5. TT 19.3: P 19.3: RC 14.8: D 2.5. Refers to R. W. Alger, H. Y. Carson, C. E. DeLeuw, D. H. Sawyer, M. J. Trees, V. C. Ward, F. M. White.

1453

(7) ZEE, TSUNG-TONG, 410 South Division St., Ann Arbor, Mich. (Age 26. Born Shanghai, China.) 1925 B. S., Shanghai Coll. TT 4: P 4. Sept. 1925 to June 1926 Instructor, Shanghai (China) Coll. TT 0.5: SP 0.5. June 1926 to May 1927 Head, Truck Service Dept., China National Transportation Co., Shanghai. At present graduate student, Univ. of Michigan. TT 0.5: SP 0.5. TT 5: SP 1: P 4. Refers to W. H. Adams, R. L. Morrison, H. B. Riggs, R. S. Swinton, J. S. Worley.

FOR TRANSFER

FROM THE GRADE OF ASSOCIATE MEMBER

1454

(11) ANGAS, WILLIAM MACK, Assoc. M., 1419 Granada Ave., San Diego, Cal. (Elected Dec. 14, 1925.) (Age 36. Born Great Burdon, England.) 1917 S. B., Mass. Inst. Tech. TT 4: P 4. June 1917 Asst., Dept. of Civ. Eng., Massachusetts Inst. of Technology. June 1917 to Jan. 1918 Instructor in navigation and nautical astronomy U. S. Shipping Board, after July 1917 in charge of Baltimore School. TT 0.5: P 0.5: RC 0.4. Jan. 1918 to date with Civ. Eng. Corps, U. S. Navy, until July 1918 as Lieut. (j. g.), July 1918 to July 1920 Lieut. (temporary), July 1920 to June 1925 Lieut., and since June 1925 Lt. Commander, being Asst. Civ. Engr., and (since Dec. 1925) Civ. Engr., engaged as follows: Jan. to Feb. 1918 at Naval Acad., instruction in naval procedure; Feb. 1918 to Jan. 1922 Asst. to Public Works Officer, Navy Yard, Philadelphia, Pa., superintending public works construction (1½ years), in charge of operation of Navy Yard water-supply system, including waste-water survey (6 months), of completion of new power plant (\$380 000) (6 months), contracts for public works construction (\$350 000) and repairs to Dry Dock No. 3 (1½ years); also designed 1200-gal. foam-type motor-driven fire engine; Jan. 1922 to April 1925 Senior Asst. to Public Works Officer, Navy Yard, Pearl Harbor, Hawaii, being in charge of drafting and technical forces, designs and studies for construction (approx. \$5 000 000), including water-supply system, Ft. Kamehameha, Ft. Weaver, Naval and Army air stations, Ford Island (\$300 000), waterfront construction (\$2 000 000), fuel oil tank farm, extension to power plant, etc. (2½ years); Acting Public Works Officer (2 months), Acting Plant Engr. in charge of operation of power plant, distributing and transportation systems, and maintenance and construction of public works and utilities (% year) also designed rein-

forced concrete mooring platforms for large vessels; since April 1925 Asst. to Public Works Officer, 11th Naval Dist. and Naval Operating Base, San Diego, Cal., about 2 years in charge of drafting room and technical force, handling miscellaneous design, including reconstruction of Marine Ry. at destroyer base; past 1½ years Project Mgr. in charge of construction of reinforced concrete navy pier (\$250 000) and of projects at radio stations and fuel and supply depots. TT 10.1: SP 0.8: P 9.3: RC 8.8: D 5.6. TT 14.6: SP 0.8: P 13.8: RC 9.2: D 5.6. Refers to E. H. Brownell, C. A. Carlson, F. R. Harris, T. King, G. A. McKay, D. C. Webb.

1455

(1) BEAM, CARL EUGENE, Assoc. M., 33 West Thirty-Ninth St., New York City. (Elected March 12, 1918.) (Age 40. Born Yale, Iowa.) 1914 B. S. in C. E., Univ. of Wash. TT 4: P 4. Summer 1909 Chainman, Rodman and Draftsman, land subdivision, Yakima, Wash. Summer 1910 Office Draftsman and later Inspector on trestle and bridge construction, and July to Nov. 1911 Instrumentman and Draftsman, Yakima Valley Ry. Co. TT 0.2: SP 0.2. Nov. 1911 to March 1912 private work on land subdivision, Eastern Washington. TT 0.3: P 0.3. March 1912 to July 1913 with Kittitas Reclamation Dist. (70 000 acres) as Rodman (3 months), Field Draftsman on surveys (3 months), Office Draftsman on estimates, calculations of hydraulic properties of canals, tunnels, siphons, etc., and hydraulic grade line design (9 months). TT 1.3: P 1.3: RC 0.7: D 0.7. July to Sept. 1913 Office Draftsman with Drainage Engr., Yakima County, on plans and reports. TT 0.2: P 0.2: D 0.2. July 1914 to Oct. 1917 Prin. Asst. Drainage Engr., Yakima and Walla Walla Counties, Wash., in charge of location, design and construction of over 60 miles of drainage canals, 65 highway bridges (spans 12 to 160 ft.), 6½ miles of highways, reinforced concrete conduits, culverts, bridge abutments, piers, etc. TT 3.2: P 3.2: RC 3.2: D 1.5. Oct. 1917 to Aug. 1919 with U. S. Army, first as Private, later 2d Lieut. and 1st Lieut., Engrs., 11 months with A. E. F. on railway and camp water supply, etc. TT 1.9: P 1.9: RC 1. Sept. 1919 to April 1921 Asst. Chf. Engr., Washington State Reclamation Service, on water-supply studies, examinations, estimates, plans and reports on irrigation, drainage, diking and river control projects. TT 1.4: P 1.4: RC 1.4: D 1. Aug. 1921 to date with American Society of Civil Engineers, first as Technical Editor, then Asst. Secy. TT 7.3: P 7.3: RC 7.3. TT 19.8: SP 0.2: P 19.6: RC 13.6: D 3.5. Refers to L. Bush, E. M. Chandler, J. W. Cunningham, A. H. Fuller, J. O. Greenway, D. C. Henny, F. B. Maltby, C. C. More, G. T. Seabury.

1456

(1) BOGART, JOHN LUYSTER, Assoc. M., Glen Head, N. Y. (Elected Nov. 9, 1920.) (Age 44. Born Brooklyn, N. Y.) 1906 B. S., and 1915 C. E., N. Y. Univ. TT 4: P 4. Summers 1903 and 1904 Chainman with Jacobs & Davis, New York City. 1906 Transmittan with L. C. L. Smith, Long Island City, N. Y. TT 0.1: SP 0.1. 1907 to 1908 Head of Party, Brooklyn Rapid Transit Co., on reconstruction of Brighton Beach Line, alignment and grades for station buildings, bridge abutments, etc. TT 1.3: P 1.3. 1909 to 1910 Inspector for U. S. Govt., dredging Bay Ridge Channel, New York Harbor, also Surveyor on hydrographic survey of same channel. TT 1: SP 0.5: P 0.5. Jan. 1911 to Jan. 1912 Contr.'s Engr., Glyndon Contr. Co., Contr. 23, Catskill Aqueduct, open-cut and grade tunnel construction, measuring and computing progress and costs, laying out plans, checking alignment and grades, design of plant. TT 1: P 1: RC 1: D 0.5. March to Nov. 1912 Res. Engr. for Hinchman & Pilot, New York City, on 42-acre development, topographical survey, layout of property, plans for alignment and grades of streets, in charge of construction, including drainage, water system, grading and building streets. TT 0.6: P 0.6: RC 0.6: D 0.2. Nov. 1912 to July 1914 Asst. Engr. with Noble & Woodard, New York City, on design and investigation of design, including work on design for Pearl Harbor Dry Dock and study of economic size of a hydro-electric paper and pulp mill. TT 1.5: P 1.5: D 1.5. July 1914 to June 1918 Outside Engr., Flinn-O'Rourke Co., Inc., New York City, on East River Tunnel, including placement of river blanket and daily hydrographic survey of same, 2 months on design of shields, in charge of location and layout of plant, etc. TT 4: P 4: RC 2: D 1. June 1918 to July 1919 Asst. Supt. of pier construction, Turner Constr. Co., at Army Supply Base, Brooklyn, N. Y., on \$8 000 000 water-front improvement. TT 1: P 1: RC 1. Sept. to Dec. 1919 Supt. in charge of construction for The Matinecock Constr. Co., on work for Doubleday-Page Co., Garden City, N. Y. TT 0.3: P 0.3: RC 0.3. Jan. to April 1920 Supt. on ice-plant construction, Knickerbocker Ice Co., Mineola, N. Y. TT 0.3: P 0.3: RC 0.3. May 1920 to date with Thomas E. Murray, Inc., New York City, successively in charge of inspection on Hell Gate Power House for United Elec. Light & Power Co., Res. Engr. on Hudson Ave. Power Station of Brooklyn Edison Co., and Asst. Constr. Engr. on East River Station of New York Edison Co.; 1907 to 1910 and 1912 to date also Civ. Engr. and Surveyor at Glen Head, N. Y. TT 8.4: P 8.4: RC 8.4. TT 23.5: SP 0.6: P 22.9: RC 13.6: D 3.2. Refers to F. E. Cudworth, C. B. Grady, G. A. Hughes, G. A. Orrok, C. E. Trout, E. M. Van Norden.

of 1910 to 1912. (Age 41. Born St. Albans, Vt.) 1892 C. E., and 1902 M. A., Norwich Univ. TT 4: P 4. 1892 to 1906 various work in

(1) CORP. HENRY WILLIAM, Assoc. M., P. O. Box 1333, Manila, Philippine Islands. (Elected Junior Oct. 1, 1907; Assoc. M. June 4, 1913.) (Age 43. Born Providence, R. I.) 1907 Sc. B. in C. E., Brown Univ. TT 4: P 4. June 1907 to Jan. 1908 Chairman and later Rodman, New York, New Haven & Hartford R. R. TT 0.3: SP 0.3. Jan. 1908 to June 1910 with Bureau of Lands, Manila, Philippine Islands, until Feb. 1909 as Transitman, then Chf. of Party in charge of surveys and mapping of roads and streets in Bulacan and Laguna Provinces, establishing monuments in each town. TT 2.4: P 2.4: RC 1. (June 1910 to Sept. 1920 (except July 1918 to Jan. 1919 1st Lieut., Corps of Engrs., U. S. Army, and Jan. to July 1919 on vacation) with Manila R. R. Co., until Feb. 1913 as Res. Engr. in charge (under Div. Engr.) of grading 30 km. (June 1910 to Aug. 1911), of track-laying, erecting culverts, pile and small steel bridges and station buildings on 30 km. (Aug. 1911 to May 1912), and of grading on Hondagua Line and construction of 250-m. pile dock, also on location (May 1912 to Feb. 1913); Feb. 1913 to May 1917 in charge (under Asst. Chf. Engr.) of construction of 70 km. of grading, track-laying, erection of steel bridges, water tanks, turntables, buildings, etc.; May 1917 to July 1918 Prin. Asst. Engr. on maintenance; July 1919 to Sept. 1920 Locating Engr. in charge of location of San Pablo cut-off (22 km.) and study and location into Cagayan Valley. TT 9.4: SP 0.2: P 9.2: RC 8.2: D 4. Sept. 1920 to Oct. 1924 with Pampanga (Philippine Islands) Sugar Mills, Del Carmen, in charge of construction and maintenance of railroads, until Sept. 1922 as Civ. Engr., then Supt. of Transportation, also in charge of operation of trains and after May 1923 Asst. Mgr. with same duties. TT 4: P 4: RC 4: D 4. Oct. 1924 to Nov. 1926 with Binalbagan (Occidental Negros) Estate, Inc., Philippine Islands, until Feb. 1925 as Operating and Technical Director in charge of technical operation of sugar mill, including milling plant, railway systems, repairs to machinery, maintenance of way, construction of track, bridges, wharf and buildings, and after Feb. 1925 Mgr. in charge of all operations. TT 2: P 2: RC 2: D 2. Nov. 1926 to date with Manila R. R. Co., until Jan. 1927 as Asst. Chf. Engr. in charge of various works (under Chf. Engr.), from April to Sept. 1927 Acting Chf. Engr. in charge of maintenance and construction of tracks and structures, and since Feb. 1928 Maintenance Engr. in charge of maintenance of track, bridges, buildings, etc. and of construction of sidings, bridges, buildings, etc. on operated lines. TT 1.9: P 1.9: RC 1.5: D 1.5. TT 2.4: SP 0.5: P 2.5: RC 16.7: D 11.5. Refers to W. J. Grodaski, R. R. Hancock, C. Russell, H. I. Shoemaker, E. S. von Plontkowski.

1458

(8) FORD, ROBERT HENRY, Assoc. M., 9136 South Robey St., Chicago, Ill. (Elected Junior March 2, 1897; Assoc. M. June 7, 1899.) (Age 59. Born St. Albans, Vt.) 1892 C. E., and 1902 M. A., Norwich Univ. TT 4: P 4. 1892 to 1906 various work in Roadway, Bridge and Operating Depts., Central Vermont Ry. TT 9.7: SP 3.2: P 6.5: RC 2: D 4. 1906 to 1910 with M. of W. Dept., Missouri Pacific Ry., successively as Inspector, Prin. Asst. Engr. and Asst. to Chf. Engr. TT 3.9: SP 0.2: P 3.7: RC 3.7. 1910 to 1911 Chf. Engr., Hodge-Downing Constr. Co., Gen. Ry. Contrs., Birmingham, Ala. TT 1: P 1: RC 1. 1912 to date with Rock Island Lines, successively as Special Engr., Engr. of Track Elevation, Prin. Asst. Engr. and Asst. Chf. Engr. TT 16: P 16: RC 13.5: D 2. TT 3.6: SP 3.4: P 31.2: RC 20.2: D 6. Refers to O. Bates, D. J. Brumley, A. L. Davis, A. J. Hammond, E. T. Howson, C. F. Loweth, C. A. Morse.

1459

(1) GAUTIER, RAOUL CHARLES, Assoc. M., 103 Park Ave., New York City. (Elected Sept. 11, 1917.) (Age 41. Born Paris, France.) 1907 Ing. des Arts & Metiers, Ecole Nationale des Arts & Metiers de Chalons s/ Marne, France. July 1907 to Sept. 1908 Draftsman and Designing Engr. for engineers constructing elevators and conveyors and (after March 1908) for a Concrete Engr., Paris, France. TT 0.6: SP 0.6: D 0.6. Oct. 1908 to Sept. 1909 military service. Sept. 1909 to Feb. 1914 Designing Engr. for L. G. Mouchel & Partners of London, England, Cons. Engrs. and Representatives for Hennebeque system of reinforced concrete (3½ years), for S. Boussiron, Cons. Engr. for French Govt. and Railroads (4 months) and National Fireproofing Co. of Pittsburgh, Pa. (9 months), on factories, warehouses, bins, jetties, docks, dams, reservoirs, girder and arch bridges, schools, hospitals, etc. TT 4.4: P 4.4: RC 4.4: D 31.4. Feb. to June 1914 Designing Engr. and June 1915 to Feb. 1917 in charge of Detailing Dept. and Chf. Engr., Truscon Steel Co., Syracuse Branch office. TT 2: P 2: RC 1: D 1.7. June 1914 to June 1915 Designing Engr. and in full charge of office of W. H. Wardwell, Reinforced Concrete Contrs. and Engr., Montreal, Quebec. TT 1: P 1: RC 1: D 1. Feb. 1917 to May 1927 Chf. Engr. for Thompson & Binger, Engrs. and Contrs., New York City, on all types of buildings. TT 10.2: P 10.2: RC 10.2: D 10.2. May 1927 to date member of firm, Fougner & Gautier, Engrs., designing industrial buildings.

TT 1.5: P 1.5: RC 1.5: D 1.5. TT 19.7: SP 0.6: P 19.1: RC 18.1: D 18.4. Refers to W. D. Binger, H. Fougner, C. M. Geupel, L. C. Hammond, L. C. Jordan, G. W. Thompson, E. DeV. Tompkins.

1460

(10) HULL, WILLIAM DELONEY, Assoc. M., McRae, Ga. (Elected March 11, 1919.) (Age 40. Born Athens, Ga.) Student, Univ. of Georgia (3 years), Special Course, Georgia School of Technology (Nov. 1915 to March 1916) and Post-Graduate course, Univ. of Michigan (Jan. to Feb. 1922). TT 1.5: P 1.5. June to Nov. 1909 Recorder, U. S. Geological Survey, Montpelier, Idaho. TT 0.2: SP 0.2. March 1910 to April 1911 Rodman, Panama Canal, Miraflores Lock construction. TT 0.6: SP 0.6. April 1911 to Feb. 1912 Inspector on construction, sewage-disposal plants, Solomon-Norcross Co., San. Engrs., Atlanta, Ga. TT 0.7: SP 0.2: P 0.5. Feb. to April 1912 Transitman, transmission line location, Northern Contr. Co., Atlanta, Ga. (Ga. Power Co.). TT 0.2: P 0.2. May 1912 to Feb. 1913 with Stone & Webster, as Transitman, and Inspector on high-tension transmission line construction. TT 0.8: P 0.8. March 1913 to March 1914 Instrumentman and Asst. Gen. Foreman on high-tension transmission line construction, Panama Canal. TT 1: P 1. May 1914 to Oct. 1915 with M. of W. Dept., Southern Ry. as Res. Engr. on underpass construction at Atlanta, Ga., and Asst. Engr., double track construction (masonry work) at Danville, Va., and double-track construction estimate at Greer, S. C. TT 1.5: P 1.5: RC 1.5. March 1916 to Jan. 1917 Inspector, Tennessee Power Co., in charge of construction of power dam, Rock Island, Tenn. TT 0.8: P 0.8: RC 0.8. Jan. 1917 to Oct. 1918 Foreman, concrete mixing plant, power dam; Supt. of Constr., Swain County Highway, Tallahassee Power Co.; Combination Engr. and Walking Boss, Knoxville Power Co., Calderwood, Tenn. TT 1.8: P 1.8: RC 1.8. Oct. 1918 to March 1919 Engr. on shipway construction, and Gen. Labor Foreman on concrete ship construction, A. Bentley & Sons Co., Jacksonville, Fla. TT 0.4: P 0.4: RC 0.4. April 1919 to Jan. 1921 Res. Engr. and Asst. Div. Engr., Lynchburg and Suffolk, Va., and Special Engr., Richmond, Va., concrete and bituminous road construction, Virginia Highway Dept. TT 1.8: P 1.8: RC 1.4: D 0.4. Jan. 1921 to April 1927 Res. Engr., Georgia Highway Dept., Dublin, Ga., on highway and bridge construction. TT 6.3: P 6.3: RC 5.3: D 1.1. April 1927 to date Engr., Telfair County Bond Comm., McRae, Ga., in charge of expenditure of \$200 000 bridge bonds. TT 1.4: P 1.4: RC 1.4: D 1.4. TT 19.1: SP 1.1: P 18: RC 12.6: D 2.8. Refers to B. L. Crenshaw, M. J. Guyton, W. R. Neel, S. B. Slack, C. M. Strahan.

1461

(8) KANE, IRVING PATTERSON, Assoc. M., 910 South Michigan Ave., Chicago, Ill. (Elected Dec. 6, 1915.) (Age 42. Born Gittings, Md.) 1907 S. B., St. Johns Coll., Annapolis, Md. 1910 S. B., Mass. Inst. Tech. TT 4: P 4. Aug. 1910 to Jan. 1911 Chairman, Baltimore & Ohio R. R. TT 0.2: SP 0.2. April 1911 to Feb. 1912 Asst. Engr., New York Central R. R. TT 0.8: P 0.8. Feb. to May 1912 Computer, Lehigh Valley R. R. TT 0.2: P 0.2. May 1912 to Feb. 1915 Asst. Engr., Baltimore Sewerage Comm., on design, estimates and specifications. TT 2.7: P 2.7: RC 1.2: D 1.5. Feb. to Dec. 1915 Asst. Dist. Engr., International Joint Comm., on preliminary layouts with cost estimates of intercepting sewer systems for Detroit and other cities and towns on Detroit and St. Clair Rivers, assisted on treatment-plant studies, etc. TT 0.8: P 0.8: RC 0.8: D 0.8. May to Sept. 1916 and Jan. to May 1917 Asst. Engr., Seaboard Air Line R. R. and (1917) Western Maryland R. R. TT 0.6: P 0.6: RC 0.6. May 1917 to Aug. 1919 Capt. and Major of Engrs., U. S. Army, Commanding Officer, Co. A, 305th Engrs., Adj. and Commanding Officer, 45th Engrs., 1½ years in France. TT 2.2: P 2.2: RC 2.2. Nov. 1919 to date Asst. Engr. and Designing Engr. of treatment plant, Design Div., San. Dist. of Chicago, had charge of design and plans of treatment plants, Calumet North Side and West Side, exclusive of electrical, mechanical and architectural work (approx. \$6 000 000, \$17 000 000 and \$25 000 000), and interceptors and two small plants (approx. \$2 500 000), on general studies and estimates for entire sewage-treatment program of Dist., and on plans, estimates and data for Boards of Cons. Engrs. and for Federal litigation. TT 8.9: P 8.9: RC 8.9: D 8.9. TT 20.5: SP 0.2: P 20.3: RC 18.8: D 11.2. Refers to R. L. Burwell, C. W. Hubbell, L. Pearce, H. P. Ramey, G. J. Reguardt, H. S. Ripley, L. C. Whittemore.

1462

(10) MOULTON, GEORGE LEWIS, Assoc. M., Care, State Highway Dept., Montgomery, Ala. (Elected March 18, 1925.) (Age 33. Born Mobile, Ala.) 1911 to 1914 student, Alabama Polytechnic Inst. TT 2: P 2. Summers Rodman and Transitman on highway location and land surveys, Mobile County, Ala. Aug. 1914 to June 1915 Rodman and Instrumentman, Mobile & Ohio R. R. TT 0.4: SP 0.4. June 1915 to June 1916 Res. Engr., water-works and sewers at Citronelle and Camden, Ala. TT 0.7: SP 0.2: P 0.5: RC 0.5: D 0.5. June 1916 to Aug. 1919 Commissioned Officer, U. S. Army. TT 3.1: P 3.1: RC 3.1:

D 1. Aug. 1919 to Aug. 1920 Prin. Asst. Engr., U. S. Shipping Board on construction of two concrete ships. TT 1: P 1: RC 1: D 1. Aug. to Dec. 1920 Res. Engr. on construction of 7-mile pipe line, Versailles, Ky. TT 0.4: P 0.4: RC 0.4: D 0.4. Dec. 1920 to April 1921 Engr., ship channel improvements for Deep Water Refineries, Houston, Tex. TT 0.3: P 0.3: RC 0.3: D 0.3. April 1921 to Dec. 1922 Res. Engr. on filter plant, Proximity Mfg. Co., Greenboro, N. C. TT 1.7: P 1.7: RC 1.7. Dec. 1922 to Nov. 1924 Engr. with Tucker & Laxton, Charlotte, N. C., design and supervision of water-works, sewers, filter, disposal and sewage-pumping plants, for various cities and mills in North and South Carolina, and location of 3 miles of railroad, Durham, N. C. (given in detail in application). TT 1.8: P 1.8: RC 1.8: D 1.8. Dec. 1924 to Feb. 1927 in private practice, Tuscaloosa, Ala., water and sewers, Cllo, Ala., paving in Tuskegee, Dadeville, Alexander City, Camp Hill and Auburn, Ala., paving and waterworks, Demopolis, Farmsdale, and Greenville, Ala. TT 2.2: P 2.2: RC 2.2: D 2.2. Feb. 1922 to date Prin. Asst. State Engr., Alabama Highway Dept., Montgomery. TT 1.7: P 1.7: RC 1.7: D 1.7. TT 15.4: SP 0.7: P 14.7: RC 12.7: D 8.9. Refers to C. D. Batson, C. E. Boesch, W. F. Fennell, G. G. Jacobosky, J. R. Peavy, E. L. Scruggs, G. C. White.

1463

(10) ROBINSON, WILLIAM MORRISON, Jr., Assoc. M., 701 Marion Bldg., Augusta, Ga. (Elected July 9, 1923.) (Age 37. Born Augusta, Ga.) 1911 B. S. in C. E., and 1924 C. E., Ga. School Tech. TT 4: P 4. June 1911 to May 1914 and Nov. 1914 to April 1916 with Georgia R. R., Augusta, Ga., until April 1912 as Transitman and Draftsman, then Asst. Engr. on track layouts, architectural and engineering designs, Roadway Dept., and after Nov. 1914 Asst. Valuation Engr. in charge of terminal surveys, responses to Interstate Commerce Comm.'s valuation orders, map reproductions, co-ordinating railroad work with Interstate Commerce Comm. field parties. TT 4: SP 0.5: P 3.5: RC 3.5: D 1. June 1914 and Oct. 1919 to Feb. 1920 with Charleston & Western Carolina Ry., as Valuation Draftsman (June 1914) and Accounting Engr. on reports to Interstate Commerce Comm. TT 0.4: P 0.4: RC 0.3. July to Oct. 1914 Asst. Engr., Eastern Dist., Southern Ry., Charlotte, N. C., addition and betterment work, designs and supervision. TT 0.3: P 0.3: RC 0.3: D 0.3. May 1916 to May 1917 Chf. Engr., Savannah River Terminal Co., Augusta, on design and construction of railroad and wharf properties. TT 1.1: P 1.1: RC 1.1: D 1.1. May 1917 to Aug. 1919 Engr. Officer, U. S. Army, until July 1918 as 2d Lieut., then 1st Lieut., also 2 months as Roadmaster, Parthenay Dist., French State Ry., and 2 months on camp design and construction in France. TT 2.3: P 2.3: RC 2.3: D 0.3. Sept. 1919 Office Engr. with E. G. Smith, Civ. and Hydr. Engr., Augusta, on computations and drafting. TT 0.1: P 0.1. Feb. to May 1920 Field Engr. with Nisbet Wingfield, Cons. Engr., on surveys and plans for levee system along Chattahoochee River at West Point, Ga. TT 0.3: P 0.3: RC 0.3: D 0.3. June 1920 to Feb. 1923 Special Engr. of Valuation, Georgia R. R., Atlanta & West Point R. R., and Western Ry. of Alabama and affiliated short lines, reports, objections, expert testimony before Interstate Commerce Comm., etc. TT 2.8: P 2.8: RC 2.8. March 1923 to date in private practice as Civ. and Valuation Engr., making original, protest and supplemental valuations of common carriers, expert testimony before Interstate Commerce Comm. on railroad valuations and reconnaissances, relocations and inspection reports. TT 5.6: P 5.6: RC 5.6: D 2.8. TT 20.9: SP 0.5: P 20.4: RC 16.2: D 5.8. Refers to R. P. Black, H. B. Holmes, J. H. Johnston, M. J. Macnabb, H. D. Mendenhall, C. Silliman, S. R. Young.

1464

(11) SADLER, CHARLES BOONE, Assoc. M., Public Works Office, 11th Naval Dist., San Diego, Cal. (Elected Jan. 6, 1915.) (Age 46. Born Baltimore, Md.) 1899 to 1901 in electrical machine shop of McKay Engineering Co., Baltimore, Md. TT 1 SP 1. 1901 to 1904 Draftsman, Chesapeake & Potomac Telephone Co. TT 1.5: SP 1.5. April to July 1904 and Jan. 1905 to Aug. 1907 Draftsman for Chas. L. Reeder, Cons. Engr., Baltimore, Md., design of steam power plants and mechanical equipment of buildings. TT 2.8: SP 0.2: P 2.6: D 2.6. July 1904 to Jan. 1905 Draftsman, Burnt Dist. Comm., Baltimore, Md., on record maps. TT 0.2: SP 0.2. Aug. 1907 to April 1916 with Baltimore Sewerage Comm., until Jan. 1912 as Draftsman, Storm Water Div., on design of storm-water drains and details, then Asst. Engr. in charge of drafting room and contract plans (contracts, \$1 300 000). TT 8.7: P 8.7: RC 4.3: D 8.7. May to Nov. 1916 Pitometer Engr., Baltimore City Water Dept., in charge of conservation of water supply. TT 0.5: P 0.5: RC 0.5. Nov. 1916 to date Draftsman, until April 1917 with Bethlehem Steel Co., Sparrows Point, Md., on design of steel-making machinery, April to July 1917 with Francis Weller, Cons. Engr., Washington, D. C., on design of heating plants for Navy Dept., July 1917 to Oct. 1920 with Bureau of Yards and Docks, Washington, D. C., on design of sewers, drains and water-supply systems for Navy Yards and Naval Training Camps, and after Oct. 1920 with Public Works Office, San Diego, Cal., on design of sewers, drains, plumbing and water supply in 11th

Naval Dist., also Safety First Inspector for Dist. TT 12: P 12: RC 11.5: D 12. TT 26.7: SP 2.9: P 23.8: RC 16.3: D 23.3. Refers to R. L. Burwell, A. H. Hartman, W. A. Megraw, H. L. Rogers, C. E. Smith, N. M. Smith. 1465

(1) **STOCKER, HOWARD RAYMOND**, Assoc. M., 2 Rector St., New York City. (Elected Nov. 26, 1918.) (Age 43. Born Allentown, Pa.) 1906 C. E., Lehigh Univ. TT 4: P 4. June to Dec. 1906 Inspector and Chf. of Party, Isthmian Canal Comm., in Panama, on sanitation and dam, highway and sewer construction. TT 0.3: SP 0.3: 1906 to 1914 Asst. Engr., Board of Water Supply, New York City, on hydraulic studies, estimates, design and preparation of contracts for steel-pipe siphons, cut-and-cover aqueduct, filters, landscaping, and on construction of Kensico Reservoir. TT 7: P 7: RC 4.5: D 6. 1914 to 1923 Asst. Engr., Water Supply Comm. of Pennsylvania and State Dept. of Health, investigating and reporting on water-works and sewerage systems, dams, bridges, applications for charters of water companies, etc., and inspecting construction, supervising operation of water-works and sewage-treatment plants, water-resources inventory, general sanitation and epidemic relief. TT 9: P 9: RC 4.5: D 9. 1923 to date Hydr. Engr., Elec. Bond & Share Co., New York City, investigating, estimating and reporting on proposed projects and supervising design of hydro-electric and steam-electric developments, specifications and purchase of materials and apparatus. TT 5: P 5: RC 5: D 5. TT 25.3: SP 0.3: P 25: RC 14: D 20. Refers to R. A. Boehringer, D. W. Cole, C. A. Emerson, Jr., A. D. Flinn, W. S. Merrill, H. E. Moses, A. V. Ruggles. 1466

(15) **WELSH, RUSSELL DUTTON**, Assoc. M., 5403 Ross Ave., Dallas, Tex. (Elected June 18, 1918.) (Age 38. Born Baltimore, Md.) 1913 C. E., Cornell Univ. TT 4: P 4. June 1913 to Oct. 1915 Inspector, Baltimore Sewerage Comm., High Level Div., on construction of trunk sewers and house laterals. TT 1.1: SP 1.1: Oct. 1915 to July 1916 with George A. and Fuller Co., first as Engr. in charge of survey party on construction of fifteen industrial buildings at Curtis Bay, Md., gave lines and grades for building, sewers and pump house, and after Feb. 1916 Engr. and Material Clerk, on construction of \$300 000 court house at Durham, N. C. TT 0.6: SP 0.2: P 0.4: RC 0.4: July 1916 to April 1917 Jun. Engr., M. of W. Dept., Southern R. R., Knoxville, Tenn., in charge of construction work on replacement of wooden bridges by concrete and steel in Tennessee and North Carolina, between Del Rio, Tenn. and Asheville, N. C. TT 0.8: P 0.8: RC 0.8: April 1917 to Jan. 1918 Asst. Engr., Holt Eng. Co., Asheville, N. C., in charge of engineering on and designed concrete beams, columns and girders for \$500 000 Kenilworth Hotel; in charge of survey and construction of 5½ miles of logging railroad at Sunburst, N. C., and of construction of asphalt streets at New Port, Tenn. TT 0.8: P 0.8: RC 0.8: D 0.2. Jan. to May 1918 Office Engr., Valler (Mont.) Land & Water Co., in charge of office and design of wood and concrete irrigation structures. TT 0.3: P 0.3: RC 0.3: D 0.3. May 1918 to July 1919 Private, later 2d Lieut., 115th Engrs., Co. D, 40th Div., 11 months in France and Germany. July 1919 to Nov. 1920 Draftsman, West Penn. Power Co., Pittsburgh, Pa., designed concrete arch bridge, town lay-outs, mine buildings, shops, warehouses, tipples for mine at Logan's Ferry, Pa. TT 1.3: P 1.3: RC 1.3: D 1.3. Nov. 1920 to Feb. 1922 Designer and Draftsman, Penn. Coal & Coke Corporation, in charge of construction at Patton Dist. Office, design of tipples, washers, etc., also location of 3 miles of trolley line. TT 1.2: P 1.2: RC 1.2: D 1.2. Feb. to Nov. 1922 Engr., Geo. R. Morris, Inc., Baltimore, Md., in charge of construction of concrete streets and sanitary and storm sewers. TT 0.7: P 0.7: RC 0.7. Nov. 1922 to Aug. 1928 Engr. with W. C. Olsen, Inc., Raleigh, N. C., made sewers and water distribution systems for a town; had charge of design and construction of asphalt streets on \$2 500 000 paving program, also handled paving assessments, designed other small municipal structures. TT 5.8: P 5.8: RC 5.8: D 5.8. Aug. 1928 to date Designer, Morgan Eng. Co., Memphis, Tenn., building about 25 miles of levees for control of Trinity River in vicinity of Dallas. TT 0.2: P 0.2: RC 0.2: D 0.2. TT 16.8: SP 1.3: P 15.5: RC 11.5: D 8.2. Refers to C. E. Atwood, F. A. Barnes, O. W. Connet, T. S. Johnson, R. K. Linville, G. E. McNutt, L. C. Urquhart. 1467

FROM THE GRADE OF JUNIOR

(6) **ALBERT, JOHN EARL**, Jun., 509 Wheeling Bank & Trust Bldg., Wheeling, W. Va. (Elected Aug. 9, 1920.) (Age 31. Born Munson, Pa.) 1918 B. S. in C. E., Univ. of Pittsburgh. TT 4: P 4. Jan. 1919 to Jan. 1924 with West Penn. Co., Pittsburgh, Pa., until July 1922 as Engr., Research Dept., on appraisals, public utility rate structures, rate cases, economic and operating studies (electric railway and power), then Asst. to Vice-Pres. who had charge of electric light, power and railway operations in West Virginia. TT 3.3:

SP 1.8: P 1.5. Jan. 1924 to Jan. 1926 Asst. Gen. Mgr., Wheeling (W. Va.) Traction Co., in charge of operations (under Gen. Mgr.) TT 2: P 2: RC 2. Jan. to Nov. 1926 Traffic Engr., Public Service Ry. of New Jersey, in charge of Traffic Dept., which conducted traffic checks, rerouting and schedule-improvement studies, adjustment of service, railway and buses. TT 0.8: P 0.8: RC 0.8. Nov. 1926 to Jan. 1928 Asst. to Vice-Pres. and Gen. Mgr., Charleston Interurban Ry. Co. and Blue & Gray Lines, Charleston, W. Va., operating efficiency and schedule studies, transportation departments, bus and railway and in charge equipment maintenance, railway. TT 1.2: P 1.2: RC 1.2. Jan. 1928 to date Vice-Pres. and Gen. Mgr., Subsidiary Co. of Associated Public Utilities Corporation (public water-supply companies) and Standard Public Service Corporation (telephone and electric light plants), in charge of operations of all subsidiaries. TT 0.7: P 0.7: RC 0.7. TT 10: SP 1.8: P 9.2: RC 4.7. Refers to H. E. Beckwith, C. J. Colgan, L. Hudson, J. S. Lambie, L. C. McCandless, W. O. McCluskey, Jr., F. L. Metzger.

1468

(8) BARTOW, LESLIE W. Jun., 1400 East Fifty-Third St., Chicago, Ill. (Elected Oct. 15, 1923.) (Age 27. Born Clinton, Iowa.) 1923 B. S. in Civ. Eng., Iowa State Coll. TT 4: P 4. Summer 1922 Instrument Recorder on highway bridge impact investigations, Iowa Experiment Station. June 1923 to Jan. 1926 Jun. Engr., and Jan. 1926 to date Asst. Engr., Sewage-Treatment Plant Design Div., San. Dist. of Chicago. TT 5.3: P 5.3: RC 2.7: D 1.7. TT 9.3: P 9.3: RC 2.7: D 1.7. Refers to O. L. Eltinge, A. H. Fuller, I. P. Kane, L. Pearse, H. P. Ramey, H. S. Ripley, L. C. Whittemore.

1469

(1) BECKER, SAMUEL LEVY, Jun., 1032 Aldus St., New York City. (Elected June 6, 1927.) (Age 28. Born Kovel, Poland.) LL. B., St. Johns Coll., School of Law. 1921 B. S. Cooper Union School Tech. TT 4: P 4. Nov. 1921 to Dec. 1922 Eng. Asst., Bronx Parkway Comm., Design Dept., assisting on bridges and roads. TT 0.6: SP 0.6. Feb. 1923 to date Engr. Inspector and Asst. Engr., Bureau of Bldgs., Borough of Manhattan, on examination of plans for new buildings and alterations to buildings, past three years examining all engineering work in Public Safety Div.; past five years also advised owners and architects as to improving property; designed several buildings and checked designs. TT 5.6: P 5.6: RC 3. TT 10.2: SP 0.6: P 9.6: RC 3. Refers to H. Cash, J. Feld, M. L. Kaufman, L. M. Levine, G. Morrison, H. I. Oser.

1470

(15) BERE, ALEXANDER, Jr., Jun., 833 Howard Ave., New Orleans, La. (Elected Oct. 21, 1924.) (Age 30. Born in Gibraltar.) 1921 B. E. in Civ. Eng., Tulane Univ. of La. TT 4: P 4. June to Dec. 1921 Inspector on construction, Louisiana Fire Prevention Bureau, New Orleans, La., inspecting and installing sprinkler systems, electric wiring, testing and installing motors, generators, electrical equipment, etc. TT 0.5: P 0.5: RC 0.5. Jan. 1922 to Oct. 1924 with Doullut & Williams Co., Inc., New Orleans, La., until Jan. 1923 Field Engr. and Asst. Supt., on construction of 2-story steel and concrete warehouse (\$500 000) for Louisville & Nashville R. R. Co., laying out work, elevations, grades, checking plans, estimates, etc., and after Jan. 1923 Office Engr. estimating, drawing plans, designing concrete and steel buildings, concrete steel and timber wharves; supervising construction. TT 2.8: P 2.8: RC 2.8: D 1. Oct. 1924 to Feb. 1925 Engr., Rouprie Constr. Co., New Orleans, in charge of office, estimating, designing and supervising building construction. TT 0.3: P 0.3: RC 0.3. Feb. 1925 to date Office Engr. and Estimator, W. Horace Williams Co., Inc., New Orleans, on design, estimates, plans, appraisals and supervision, etc., on steel and concrete buildings, bridges and wharves. TT 3.5: P 3.5: RC 3.5: D 2. TT 11.1: P 11.1: RC 7.1: D 3. Refers to C. G. Cappel, R. E. Gosa, H. J. Lane, W. H. Williams, J. K. Woolf.

1471

(8) BREITHAUP, PHILIP WILLIAM, Jun., 5633 Kenmore Ave., Chicago, Ill. (Elected Dec. 15, 1924.) (Age 29. Born New York City.) 1922 C. E., Rens. Pol. Inst. TT 4: P 4. June to Dec. 1918 Cadet for Pilot, H. M. Royal Air Force; discharged as honorary 2d Lieut. TT 0.2: SP 0.2. Sept. 1922 to June 1923 Student, School of Arts and Sciences, Harvard Univ. April 1925 to March 1926 Asst. Appraisal Engr., The Barrett Co., New York City, in charge of work at seven plants. TT 0.9: P 0.9: RC 0.9. March to May 1926 Chf. of Party, Montauk Beach Development Corporation, Montauk, N. Y., on highway location. TT 0.2: P 0.2: RC 0.2. May to Sept. 1926 Shop Foreman, Benedict Stone Co., Chicago. TT 0.3: P 0.3: RC 0.3. June 1923 to April 1925 and Sept. 1926 to date with Turner Constr. Co., until April 1925 at Boston, Mass., as Rodman, Material Clerk and Asst. Supt. on two \$300 000 contracts, and since Sept. 1926 Asst. Supt., 4 months on 5-story building and 1½ years on alteration contract (over \$3 000 000) for Western Elec. Co., being Chf. of Party on preliminary survey (4 months), in charge of masonry work (8 months) and of labor and

mechanics, directly responsible to Gen. Contr. (6 months); at present on 26-story apartment building, Chicago. *TT 3.4: SP 0.4: P 3: RC 1.5. TT 9: SP 0.6: P 3.4: RC 2.9.* Refers to W. H. Brethaupt, J. W. Lowell, Jr., J. P. H. Perry, P. C. Ricketts, C. H. Schwertner.

1472

(12) FINLAY, ALLAN HUNTER, Jun., Univ. of British Columbia, Vancouver, B. C., Canada. (Elected March 16, 1925.) (Age 31. Born Guelph, Ont., Canada.) Registered Prof. Engr., Prov. of British Columbia. 1924 B. A. Sc. in C. E., Univ. of B. C. 1927 M. S. in C. E., Univ. of Ill. *TT 4: P 4.* Summer 1922 Topographer on coast triangulation survey, British Columbia Govt. Summers 1923 and 1924 and Nov. 1924 to July 1925 with Canadian Pacific Ry., as Transitman, and (after Nov. 1924) Res. Engr. during building of amusement center (Crystal Garden, \$250 000, building 300 by 100 ft. with swimming pool 150 by 40 ft.), at Victoria, British Columbia. *TT 0.9: SP 0.2: P 0.7: RC 0.7.* 1925 to 1927 Research Graduate Asst., Eng. Experiment Station, Univ. of Illinois, and graduate student, at University. Summers Structural Draftsman and Designer, Chicago, Milwaukee & St. Paul Ry. *TT 2: P 2: D 0.6.* 1927 to date Asst. Prof. of Civ. Eng., Univ. of British Columbia. Summer 1928 Designer, Dominion Bridge Co., Ltd., Vancouver, B. C., on 15-story steel office building, steel machine shop, etc. *TT 1.2: P 1.2: RC 1: D 0.2. TT 8.1: SP 0.2: P 7.9: RC 1.7: D 0.8.* Refers to C. N. Bainbridge, H. Cross, W. E. Duckering, H. J. Hansen, M. S. Ketchum, E. G. Matheson, A. N. Talbot.

1473

(13) FISHER, HENRY BUFORD, Jun., 3026 Fairview Ave., Alameda, Cal. (Elected August 30, 1926.) (Age 31. Born Alameda, Cal.) 1923 B. S., Univ. of Cal. *TT 4: P 4.* Summer 1918 Field Asst., U. S. Geological Survey, Topographic Branch on military sketching and as Rodman. Summer 1919 Field Draftsman, Pacific Gas & Elec. Co., Auburn, Cal., computing survey notes, mapping and instrument work. Jan. to May 1920 Draftsman and Computer, State Water Comm., office work on hydrographic investigations, San Francisco, Cal. *TT 0.2: P 0.2.* May to Aug. 1920 Hydrographer, Emergency Water Conservation Conference, on survey of pumping plants and stream-flow measurements along Sacramento River, Colusa, Cal. *TT 0.3: P 0.3.* May 1921 to Aug. 1922 and Dec. 1922 to Jan. 1923 Asst. Hydr. Engr., Grade 3, Div. of Water Rights, California, engineering studies San Francisco and Sacramento. *TT 1.2: SP 0.2: P 1.* June to Aug. 1923 Asst. Engr. with Charles H. Lee, Cons. Engr. on hydrographic survey, field work, compiling data and drafting. *TT 0.3: P 0.3.* Sept. 1923 to July 1924 Hydrographer, East Bay Water Co., Oakland, stream-flow measurements and compiling data, also special studies on rating of current meters. *TT 0.8: P 0.8.* July 1924 to date Asst. Engr., East Bay Municipal Utility Dist., designing and checking hydraulic structures, stream-flow and water-supply studies, compiling cost data on laying of mains, involving field inspection and study of methods, etc., and (1 year) Purchasing Agt. for field and office equipment. *TT 4.2: P 4.2: RC 2.5: D 1. TT 11: SP 0.4: P 10.6: RC 2.5: D 1.* Refers to P. Bailey, E. N. Bryan, W. S. Cone, A. P. Davis, F. W. Hanna, E. Hyatt, C. H. Lee, J. Munn, F. T. Oakley, I. C. Steele.

1474

(1) JANSSON, MARTIN ERNEST, Jun., Arlington St., Riverdale, N. J. (Elected June 16, 1924.) (Age 27. Born Chicago, Ill.) 1923 B. S., Univ. of Ill. *TT 4: P 4.* Oct. 1923 to June 1924 Chairman, Illinois Central R. R. *TT 0.3: SP 0.3.* Sept. 1924 to Aug. 1928 with New Jersey Dist. Water Supply Comm., on construction of Wanaque (N. J.) Reservoir, as Instrumentman on dam and tunnel construction and (after May 1925) Asst. Engr., in charge of field testing laboratory and of design and control of concrete mixtures and control of concrete aggregates. Sept. 1926 to June 1927 also Instructor, Evening Eng. Div., New York Univ. *TT 3.9: P 3.9: RC 2.6. TT 8.2: SP 0.3: P 7.9: RC 2.6.* Refers to H. Cross, M. S. Ketchum, A. J. Knight, H. T. Larsen, G. M. O'Rourke, A. H. Pratt, J. E. Smith.

1475

(15) LEDBETTER, JOHN JACKSON, Jr., Jun., 1015 South Mesquite St., San Antonio, Tex. (Elected June 7, 1926.) (Age 27. Born Holcomb, Mo.) 1925 B. S. in C. E., Agri. and Mech. Coll. of Tex. *TT 4: P 4.* July 1919 to March 1920 Rodman and Instrumentman. Sept. 1920 to Sept. 1921 Inspector and Instrumentman, and summer 1922 Instrumentman, for Pride & Fairley, Blytheville, Ark., on surveys, drainage and levee work, etc. March to April 1920 Rodman, Shockley Eng. Co., Kansas City, Mo., on highway work. *TT 1: SP 1.* Summer 1923 Helper, installing transformer stations, Memphis (Tenn.) Power & Light Co., and Instrumentman, Sewer Dept., Memphis. Summer 1924 with Alling Blue Print Co., San Antonio, Tex., compiling map of Bexar County, Tex. June 1925 to date Asst. Engr., Flood Prevention Dept., San Antonio, 1½ years in charge of field control of concrete on a gravity dam, 1 year Field Engr. on concrete river cutoff, reinforced concrete retaining walls, floors and bridges, and remainder of time Asst. on designs, plans and specifications for Sec. 3

river cutoff (retaining walls, bridges, siphon, movable dam, etc.), design of two arch bridges, in charge of construction of small river cuts, steel bridge, etc. TT 3.3: P 3.3: RC 3.3. TT 8.3: SP 1: P 7.3: RC 3.3. Refers to S. F. Crecellus, W. W. Hall, W. H. Lilly, J. J. Richey, N. A. Saigh, C. E. Sandstedt, R. C. Thaxton.

1476

(7) **McKEAN, JAMES PERCIVAL**, Jun., Care, Civ. Eng. Dept., Iowa State Coll., Ames, Iowa. (Elected Dec. 3, 1926.) (Age 26. Born in Lipscomb County, Tex.) 1924 B. S. in C. E., Rice Inst., Houston, Tex. TT 4: P 4. Summer 1923 Surveyman, U. S. Engr. Dept., Port Arthur, Tex., acting as Instrumentman and Party Chf. June 1924 to Sept. 1928 Asst. City Engr., Abilene, Tex., in charge of surveys and paving, Field Engr. TT 4.2: P 4.2: RC 3.2. TT 8.2: P 8.2: RC 3.2. Refers to R. M. Dunham, J. A. Focht, C. S. Henning, Jr., L. B. Ryon, Jr., L. H. Schlom, R. A. Thompson.

1477

(15) **MARS, EDWARD WELLINGTON**, Jun., Box 314, Matador, Tex. (Elected Jan. 17, 1927.) (Age 29. Born Carrollton, Mo.) 1924 B. S. of C. E., Univ. of Okla. TT 4: P 4. Summers 1922 and 1923 Asst. City Engr., Sapulpa, Okla., in charge of field parties, surveys, sewers, paving, some design. May to July 1924 Draftsman, Creek County Engr.'s Office, Federal Aid plans. TT 0.1: SP 0.1. July 1924 to May 1925 Instrumentman in charge of field party, Creek County and State Highway Dept. TT 0.6: SP 0.2: P 0.4: RC 0.4. May 1925 to April 1926 Instrumentman in charge of field party on construction, and April 1926 to March 1928 Res. Engr. on Federal Aid projects, some surveys, Oklahoma State Highway Dept. TT 2.8: P 2.8: RC 2.8. April to June 1928 Engr. in Chg., paving, City of Yale, Okla. TT 0.1: P 0.1: RC 0.1: D 0.1. June 1928 to date Res. Engr., Texas State Highway Dept., Motley County, Tex., on location and construction. TT 0.4: P 0.4: RC 0.4: D 0.4. TT 8: SP 0.3: P 7.7: RC 3.7: D 0.5. Refers to J. F. Brookes, G. C. Dobson, F. E. Lawrence, J. M. Page, D. W. Patton.

1478

(6) **WHEELER, JERROLD ELLSWORTH**, Jun., P. O. Box 1920, Pittsburgh, Pa. (Elected July 9, 1923.) (Age 27. Born Elkins, W. Va.) 1922 B. S. C. E., W. Va. Univ. TT 4: P 4. Summer 1920 Instrumentman and Draftsman, Baltimore & Ohio R. R. Summer 1921 Draftsman and Chf. of Party, County Road Dept., Taylor County, W. Va. June 1922 to date with Independent Bridge Co., Pittsburgh, Pa., estimating, detailing, designing and erecting steel structures. TT 6.3: P 6.3: RC 2.5: D 0.5. TT 10.3: P 10.3: RC 2.5: D 0.5. Refers to R. P. Davis, H. R. Hortenstine, P. W. Price, G. S. Richardson, J. D. Stevenson.

The Board of Direction will consider the applications in this list not less than thirty days after the date of its issue.